

## Architectural Engineering Technology (ACT)

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## School of Construction Program Outcomes

2013-2014

- a. an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined engineering technology activities,
- b. an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies,
- c. an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes,
- d. an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives,
- e. an ability to function effectively as a member or leader on a team to fulfill the program objectives.





Course Findings with Assessment Tools Mapped to ETAC-

AEC 132/L	Course Objectives	General Criteria											Assoc & BS program criteria								BS program criteria										
		a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e	f				
	1. Practice freehand sketching skills of architectural/construction related items	3						3				3		3	3										3						
	2. Produce orthographic projections	2,3,4	2,3,4				2,4	2,3,4							2,3,4						2,4	2,3,4									
	3. Identify common architectural symbols	2,4,5						2,4,5																							
Germany	4. Identify common architectural abbreviations	2,4,5						2,4,5																							
Architectural Graphics	5. Identify common architectural terms	1						1																							
Architectural Graphics Laboratory	6. Create basic 2-D drawings using computer-aided drafting and design software	2,4	2,4				2,4	2,4				2,4		2,4	2,4						2,4	2,4									
	7. Create a partial drawing set of a residence using computer-aided drafting and design software	2,4	2,4				2,4	2,4				2,4		2,4	2,4						2,4	2,4									

**ASSESSMENT Tools**

1. Vocab Quizzes
2. CAD Exercises
3. Sketching Notebook
4. Final Project
5. Final Exam

Assessment	#students >= C	#students	Ratio	Assessment	#students >= C	#students	Ratio	Assessment	#students >= C	#students	Ratio	Assessment	#students >= C	#students	Ratio
FA13	F-F			FA13	ONL			SP14	F-F			SP14	ONL		
								1	5	6	83%				
								2	5	6	83%				
								3	6	6	100%				
								4	2	6	33%				
								5	3	6	50%				
			AVG				AVG				AVG				AVG

	a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e	f
1. Identify the materials included in CSI Masterformat Divisions 3-14							6											6					6		6	
2. Create a report on observations made of materials being applied on both commercial and residential construction sites	2						2	2	2		2							2			2					
Sharp 3. Define common construction processes and materials related terms	5		7,8				5-8							7,8				6					5-8		5-8	
ACT & BCT 4. Create a 1,250 - 1,750 word (5-7 pages) research paper about one construction material						3	3				3	3									3				3	
Building 304-115(t)-12(e)33(r)2(a)14(l)s)JETQ106.37 360.306 2932 Trm(3)-I																										



AEC 270	Course Objectives	General Criteria										Assoc & BS program criteria								BS program criteria						
		a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e
Sharp	1. Calculate the components of a force		1-3,8		1-3,8		1-3,8									1-3,8									1-3,8	1-3,8
	2. Calculate the moments of forces		5-6, 8-9		5-6, 8-9		5-6, 8-9									5-6, 8-9									5-6, 8-9	5-6, 8-9
	3. Work problems involving the method of joints and sections		8		8		8									8									8	8
ACT & BCT	4. Work problems involving pulleys		4		4		4								4										4	4
	5. Trace load paths on structures		9												9										9	9
Statics & Strengths	6. Calculate axial, shear and bearing stresses		4,8-9		4,8-9		4,8-9								4,8-9										4,8-9	4,8-9
	7. Calculate axial strain using Hooke's law		4,8		4,8		4,8								4,8										4,8	4,8
	8. Calculate thermal stresses		4		4		4								4										4	4
	9. Calculate centroids and moments of inertia		5-6,9		5-6,9		5-6,9								5-6,9										5-6,9	5-6,9
	10. Construct load, shear, and moment diagrams		5-6,9		5-6,9		5-6,9								5-6,9										5-6,9	5-6,9
	11. Calculate flexural stresses and beam deflections		7		7		7								7										7	7
	12. Analyze and design columns		7		7		7								7										7	7



# School of Construction Program Outcomes



	a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e	f
Germany	2-3												1-3						1-3		2-3			1		
		2-3											1-3													
			2-3	2-3			2-3														2-3					
Architectural Working Drawings I										1-3			1-3							2-3						
Architectural Working Drawings I Lab										1-3			2-3							2-3	2-3		2-3			
													1-3							1-3	1,2					
	1-3																									

ACT 262/L	Course Objectives	General Criteria											Assoc. & BS program criteria								BS program criteria						
		a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e	f
Palacios	1. Adopt a process for program research	1,2,3,4				2,3,4			1,2	1	1	1,2														1,3,4	
	2. Synthesize research data	1,2,5			2	2,5	2	1,2,5		1,2	1	1,5	1,2						2								
	3. Translate data into a meaningful design solution	2,3,4,5,6			2	2,3,4,5	2,4	2,3,4,5,6				5	2,3,4	4,5								2,3,4,5,6			3,4	3,4,5	
	4. Interpret site data	3				3								3								3			3		
Architectural Design I	5. Evaluate building systems using sustainable guidelines and select appropriate solutions	2,4,5				2,4,5	2,4	2,4,5	2	2,4		5										2,4,5		4	4		
Architectural Design I Laboratory	6. Build communication skills	2,3,4,5,6				2,3,4,5			2,6											5,6							
	7. Understand the design process and how to utilize building systems not only as functional components of design but also as a source for architectural expression and human comfort	2,4,5			2	2,4,5	2,4	2,4,5	1,2	2,4	1	1,5	2,4									2,4,5		4	4,5		

**ASSESSMENT Tools**

1. Architectural Precedent
2. Programming Presentation
3. Site Design Presentation
4. Schematic Design Presentation
5. Final Presentation
6. Design Portfolio

Assessment	#students >= C	students	Ratio	Assessment	#students >= C	students	Ratio	Assessment	#students >= C	students	Ratio	Assessment	#students >= C	students	Ratio
FA13	F-F														
								1	7	11	64%				
								2	10	11	91%				
								3	11	11	100%				
								4	11	11	100%				
								5	11	11	100%				
								6	10	11	91%				
												AVG	91%		
															AVG



ACT 336/L	Course Objectives	General Criteria											Assoc. & BS program criteria								BS program criteria						
		a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e	f
Germany	1. Produce clear, concise, contract documents based on National CAD Standards drafting conventions.	1-4																		1-4						1-4	
	2. Plan an architectural set of drawings through the use of mock-up drawing development.														1-4												
Architectural Working Drawings II	3. Integrate engineering technology and building science in the assembly of architectural details.				1-4																1-4						
Architectural Working Drawings II Laboratory	4. Spot common pitfalls in the development of contract documents that can potentially lead to change orders or arbitration.						1-4					1-4															



a b c d e f g h i j k a b c d e f g h i a b c d e f

ACT 348	Course Objectives	General Criteria											Assoc & BS program criteria								BS program criteria					
		a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e
Germany	1. Create 3D visualizations from verbal and/or visual descriptions of building	1,2,3,4	1,2,3,4		1,2,3,4		1,2,3,4					1,2,3,4		1,2,3,4,5					1,2	1,2,3,4,5	1,2,3,4,5	1,2,3,4				
	2. Plan, organize, & develop models & utilize software tools as required to produce visual media for promotional, scheduling, or analysis.	1,2,3,4	1,2,3,4		1,2,3,4		1,2,3,4					1,2,3,4		1,2,3,4,5					1,2	1,2,3,4,5		1,2,3,4				
Modeling	3. Utilize typical vocabulary, graphic symbols, standards & language used in architecture, engineering, & construction to develop models.	1,2,3,4					1,2,3,4	1,2,3,4						1,2,3,4,5					1,2	1,2,3,4,5		1,2,3,4				

**ASSESSMENT Tools**

	FA13	F-F		FA13	ONL		SP14	F-F		SP14	ONL
1. Wall Section Models	1	8	9	89%							
2. Construction Animation	2	8	9	89%							
3. Text				89%							

a b c d e f g h i j k a b c d e f g h i a b c d e f

	a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e	f
1. Define the relationship and content of Construction Documents	1,4,5									1,2,3										1-6						
2. Analyze differences/similarities in types of contracts	1,4						1,6										2			4,6						
3. Compare descriptive, performance, proprietary, and reference standard methods of specifying	3						3,5,6			1,2,3							3			3,5,6						



	a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e	f
Palacios	3,4,6,8			3,4,6	3,6						6,8		3,4,6												3,4,6	3,4,6
	5,6,7				6	5				5						6	6	6	6,7			6	5,6,7		5,6,7	5,6,7
	3,4,6			3,4,6	3,6				6		6	3	3,4,6								3,4,6				3,4,6	3,4,6
Senior Project II	7								7		7								7					7	7	7
	1,2			1	1,2	2	1	1,2	1		2	2														
	3,4,5,8			3,4	3						5										3,4				3,4	3,4
	7. Build communication9 c342.9276 400.5981 Tmu.Tr932952 Tm[(7n 5.8.T-17(2952((c)15(um)-20)a7(o)4(m)-19(m)-18(u)2(n)2(ic)17(a)14(t)-12(io)4(np.6554 402.31(5.66718 -0 0 5.6554 320.9077 )2(n)2(ic)17(a)d)2(9 c342(n)29 c342)-17440054o)4(m)-19(m)-18(2)2(ic)17(a)																									

	a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e	f
1. Given BIM files, utilize standard software tools to make observations about design & constructability of building systems.	2,3	2,3			3	2,3	2,3	3			2,3	3	3							3						3
Germany 2. Understand & provide feedback about the implementation and u04 reV2.n6(ur2(di)-2(ng)4( t)-14(he)34( de)31(s)-17(i)-2(g)																										

ACT 465/L	Course Objectives	General Criteria											Assoc & BS program criteria								BS program criteria					
		a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e
Palacios	1. Conduct preliminary research and programming work required for successful design development.	1,2,4,5				1,2,4,5	4,5	1,2,4,5			1,2	1,2,4,5	4												4,5	
	2. Select materials and structural systems appropriately in response to site and environmental conditions, local codes, and program requirements.	1,2,4,5			4		4,5				1,2	1,2,4,5	4			4				5				2,4,5	4,5	
	3. Develop methodologies and strategies for Building Information Modeling management.	4,5,6			4	4,5,6						4,5													4	
	4. Implement the Building Information Modeling management strategy through the development of a building construction project	4,5,6			4	4,5,6		4,5				4,5													4	
Architectural Design IV	5. Collaborate and identify roles and responsibilities among the project team	4,5,6				4,5,6					4,5															
Architectural Design IV Laboratory	6. Examine the benefits and documentation approaches of sustainable design strategies	1,2,3,5						1,5	1,5	1,2	1,2	1,2,5							5							
	7. Document and analyze the performance of materials and building systems applied to the project.	1,2,5					5			1,2	1,2	1,2,5							5		5		2,5	5	5	
	8. Develop the preliminary documentation for USGBC's LEED certification program as it applies to sustainable design.	1,3,5						1,5	1,5	1	1	1,5		5					5		5			5	5	
	9. Demonstrate proficiency in the communication of design ideas through various presentation media.	1,2,4,5,6				4,5,6		1,2,4,5				1,2,4,5	4,6	5,6							5,6					5,6

**ASSESSMENT Tools**

1. LEED Presentation	1	12	12	100%
2. Emerging Technology Presentation	2	12	12	100%
3. Exam	3	9	12	75%
4. Programming Presentation	4	12	12	100%
5. LEED Checklist / Documentation	5	12	12	100%
6. Final Presentation	6	12	12	100%
			AVG	96%

Assessment	#students >= C	#students	Ratio
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FA13 F-F

Assessment	#students >= C	#students	Ratio
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FA13 ONL

Assessment	#students >= C	#students	Ratio
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SP14 F-F

Assessment	#students >= C	#students	Ratio
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SP14 ONL

AVG

AVG

AVG



# School of Construction Program Outcomes

2013-2014

		a	b	c	d	e	f	g	h	i	j	k	a	b	c	d	e	f	g	h	i	a	b	c	d	e	f
	1. Measure with steel tape, correct for errors, and adjust for temperature and tension	1-3	1-3	1-3			1-3						1-3		1-3							1-3					1-3
Hannon	2. Understand the concept of differential leveling	1-3	1-3	1-3			1-3						1-3		1-3							1-3					1-3
	3. Use level and perform calculations in order to adjust for errors and close the loop	1-3	1-3	1-3			1-3						1-3		1-3							1-3					1-3
Surveying	4. Use transit and understand the concept of angles and directions	1-3	1-3	1-3			1-3						1-3		1-3							1-3					1-3
	5. Calculate coordinates based on bearings and distances and vice versa, and also adjust for error closure	1-3	1-3	1-3			1-3						1-3		1-3							1-3					1-3
	6. Perform construction layout (setting up points of known coordinates/and As-built)	1-3	1-3	1-3			1-3						1-3		1-3							1-3					1-3
	7. Application of GPS and GIS technology u1f known 3836715 -0																										

# School of Construction Program Outcomes

2013-2014

## Findings: General Criteria (a-k)

GC	ACT			sem	ACT			type	ACT			ACT			ACT concatenated findings	
	criteria	>=70	ENR		%	>=70	ENR		%	>=70	ENR	%	>=70	ENR		%
GC	a	1013	1128	90%	FA13	506	544	93%	F-F	483	521	93%	90	1,013	1,128	90% ( 1,013 of 1,128 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'a'. FA13: F-F = 93% ( 483 of 521 ); ONL = 100% ( 23 of 23 ); SP14: F-F = 86% ( 423 of 493 ); ONL = 92% ( 84 of 91 );
					SP14	507	584	87%	ONL	23	23	100%				
									F-F	423	493	86%				
									ONL	84	91	92%				
GC	b	489	528	93%	FA13	227	238	95%	F-F	86	92	93%	93	489	528	93% ( 489 of 528 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'b'. FA13: F-F = 93% ( 86 of 92 ); ONL = 97% ( 141 of 146 ); SP14: F-F = 85% ( 76 of 89 ); ONL = 93% ( 186 of 201 );
					SP14	262	290	90%	ONL	141	146	97%				
									F-F	76	89	85%				
									ONL	186	201	93%				
GC	c	112	119	94%	FA13	38	38	100%	F-F	16	16	100%	94	112	119	94% ( 112 of 119 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'c'. FA13: F-F = 100% ( 16 of 16 ); ONL = 100% ( 22 of 22 ); SP14: F-F = 100% ( 45 of 45 ); ONL = 81% ( 29 of 36 );
					SP14	74	81	91%	ONL	22	22	100%				
									F-F	45	45	100%				
									ONL	29	36	81%				
GC	d	640	707	91%	FA13	380	414	92%	F-F	259	288	90%	91	640	707	91% ( 640 of 707 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'd'. FA13: F-F = 90% ( 259 of 288 ); ONL = 96% ( 121 of 126 ); SP14: F-F = 87% ( 122 of 140 ); ONL = 90% ( 138 of 153 );
					SP14	260	293	89%	ONL	121	126	96%				
									F-F	122	140	87%				
									ONL	138	153	90%				
GC	e	294	310	95%	FA13	116	116	100%	F-F	108	108	100%	95	294	310	95% ( 294 of 310 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'e'. FA13: F-F = 100% ( 108 of 108 ); ONL = 100% ( 8 of 8 ); SP14: F-F = 92% ( 178 of 194 ); ONL = 0% ( 0 of 0 );
					SP14	178	194	92%	ONL	8	8	100%				
									F-F	178	194	92%				
									ONL	0	0	0%				
GC	f	612	674	91%	FA13	302	316	96%	F-F	167	176	95%	91	612	674	91% ( 612 of 674 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'f'. FA13: F-F = 95% ( 167 of 176 ); ONL = 96% ( 135 of 140 ); SP14: F-F = 83% ( 197 of 237 ); ONL = 93% ( 113 of 121 );
					SP14	310	358	87%	ONL	135	140	96%				
									F-F	197	237	83%				
									ONL	113	121	93%				
GC	g	819	909	90%	FA13	329	336	98%	F-F	321	328	98%	90	819	909	90% ( 819 of 909 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'g'. FA13: F-F = 98% ( 321 of 328 ); ONL = 100% ( 8 of 8 ); SP14: F-F = 84% ( 407 of 483 ); ONL = 92% ( 83 of 90 );
					SP14	490	573	86%	ONL	8	8	100%				
									F-F	407	483	84%				
									ONL	83	90	92%				
GC	h	273	310	88%	FA13	104	106	98%	F-F	102	104	98%	88	273	310	88% ( 273 of 310 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'h'. FA13: F-F = 98% ( 102 of 104 ); ONL = 100% ( 2 of 2 ); SP14: F-F = 83% ( 167 of 202 ); ONL = 100% ( 2 of 2 );
					SP14	169	204	83%	ONL	2	2	100%				
									F-F	167	202	83%				
									ONL	2	2	100%				
GC	i	355	391	91%	FA13	176	184	96%	F-F	175	183	96%	91	355	391	91% ( 355 of 391 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'i'. FA13: F-F = 96% ( 175 of 183 ); ONL = 100% ( 1 of 1 ); SP14: F-F = 85% ( 96 of 113 ); ONL = 88% ( 83 of 94 );
					SP14	179	207	86%	ONL	1	1	100%				
									F-F	96	113	85%				
									ONL	83	94	88%				
GC	j	227	270	84%	FA13	66	64	103%	F-F	66	64	103%	84	227	270	84% ( 227 of 270 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'j'. FA13: F-F = 103% ( 66 of 64 ); ONL = 0% ( 0 of 0 ); SP14: F-F = 78% ( 121 of 155 ); ONL = 78% ( 40 of 51 );
					SP14	161	206	78%	ONL	0	0	0%				
									F-F	121	155	78%				
									ONL	40	51	78%				
GC	k	638	702	91%	FA13	425	457	93%	F-F	409	441	93%	91	638	702	91% ( 638 of 702 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'k'. FA13: F-F = 93% ( 409 of 441 ); ONL = 100% ( 16 of 16 ); SP14: F-F = 83% ( 153 of 185 ); ONL = 100% ( 60 of 60 );
					SP14	213	245	87%	ONL	16	16	100%				
									F-F	153	185	83%				
									ONL	60	60	100%				

Findings: Associate Level Criteria

Findings: Bachelor Level Criteria

ACT criteria		>=70	ENR	%	sem	>=70	ENR	%	type	>=70	ENR	%	%	>=70	ENR	ACT concatenated findings
BS	a	633	694	91%	FA13	331	364	91%	F-F	317	350	91%	91	633	694	91% ( 633 of 694 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Bacalaureate Degree Program Specific Criteria 'a'. FA13: F-F = 91% ( 317 of 350 ); ONL = 100% ( 14 of 14 ); SP14: F-F = 93% ( 218 of 235 ); ONL = 88% ( 84 of 95 );
									ONL	14	14	100%				
						SP14	302	330	92%	F-F	218	235				
BS	b	327	364	90%	FA13	193	216	89%	F-F	192	215	89%	90	327	364	90% ( 327 of 364 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Bacalaureate Degree Program Specific Criteria 'b'. FA13: F-F = 89% ( 192 of 215 ); ONL = 100% ( 1 of 1 ); SP14: F-F = 85% ( 79 of 93 ); ONL = 100% ( 55 of 55 );
									ONL	1	1	100%				
						SP14	134	148	91%	F-F	79	93				
BS	c	263	280	94%	FA13	157	159	99%	F-F	152	154	99%	94	263	280	94% ( 263 of 280 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Bacalaureate Degree Program Specific Criteria 'c'. FA13: F-F = 99% ( 152 of 154 ); ONL = 100% ( 5 of 5 ); SP14: F-F = 90% ( 74 of 82 ); ONL = 82% ( 32 of 39 );
									ONL	5	5	100%				
						SP14	106	121	88%	F-F	74	82				
BS	d	258	281	92%	FA13	115	117	98%	F-F	115	117	98%	92	258	281	92% ( 258 of 281 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Bacalaureate Degree Program Specific Criteria 'd'. FA13: F-F = 98% ( 115 of 117 ); ONL = 0% ( 0 of 0 ); SP14: F-F = 84% ( 74 of 88 ); ONL = 91% ( 69 of 76 );
									ONL	0	0	0%				
						SP14	143	164	87%	F-F	74	88				
BS	e	652	716	91%	FA13	322	335	96%	F-F	198	206	96%	91	652	716	91% ( 652 of 716 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Bacalaureate Degree Program Specific Criteria 'e'. FA13: F-F = 96% ( 198 of 206 ); ONL = 96% ( 124 of 129 ); SP14: F-F = 83% ( 216 of 259 ); ONL = 93% ( 114 of 122 );
									ONL	124	129	96%				
						SP14	330	381	87%	F-F	216	259				
BS	f	650	697	93%	FA13	365	391	93%	F-F	232	253	92%	93	650	697	93% ( 650 of 697 ) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Bacalaureate Degree Program Specific Criteria 'f'. FA13: F-F = 92% ( 232 of 253 ); ONL = 96% ( 133 of 138 ); SP14: F-F = 91% ( 132 of 145 ); ONL = 95% ( 153 of 161 );
									ONL	133	138	96%				
						SP14	285	306	93%	F-F	132	145				

**Action Plans**

Action Plans



Action Plans (Continued)

ACT 400 FF SP14		ACT	BCT	IET	ID / Other	
Hans Palacios						
2	Code & Programming	60				integrate assignments to enhance analytical and writing skills development
5	Sustainability Assessment	20				integrate assignments to enhance analytical and writing skills development
ACT 401 FF SP14		ACT	BCT	IET	ID / Other	
Hans Palacios						
4	Design Development	60				small sample in this case; just monitor
5	Sustainability Assessment	20				integrate assignments to enhance analytical and writing skills development
ACT 450 FF SP14		ACT	BCT	IET	ID/Other	
Shane Germany						
	Bim Report	67				Two students did not complete the semester, one WP; Monitor, request student feedback if contact can be made
ACT 465/L FF FA13		ACT	BCT	IET	ID / Other	
Hans Palacios						
5	Exam	75				



# School of Construction Program Outcomes

2013-2014

## ACT Four-year Summary

ACT 2010-2011 summary					ACT 2011-2012 summary					ACT 2012-2013 summary					ACT 2013-2014 summary				
	criteria	>=70	ENR	%		criteria	>=70	ENR	%		criteria	>=70	ENR	%		criteria	>=70	ENR	%
GC	a	732	816	90%	GC	a	671	767	87%	GC	a	479	512	94%	GC	a	1013	1128	90%
GC	b	108	128	84%	GC	b	104	128	81%	GC	b	306	321	95%	GC	b	489	528	93%
GC	c	96	113	85%	GC	c	81	96	84%	GC	c	33	36	92%	GC	c	112	119	94%
GC	d	119	146	82%	GC	d	113	139	81%	GC	d	305	315	97%	GC	d	640	707	91%
GC	e	56	60	93%	GC	e	48	59	81%	GC	e	17	20	85%	GC	e	294	310	95%
GC	f	558	641	87%	GC	f	484	565	86%	GC	f	395	423	93%	GC	f	612	674	91%
GC	g	485	547	89%	GC	g	384	436	88%	GC	g	311	360	86%	GC	g	819	909	90%
GC	h	187	220	85%	GC	h	162	184	88%	GC	h	117	125	94%	GC	h	273	310	88%
GC	i	283	311	91%	GC	i	233	276	84%	GC	i	330	360	92%	GC	i	355	391	91%
GC	j	338	373	91%	GC	j	352	402	88%	GC	j	159	175	91%	GC	j	227	270	84%
GC	k	753	840	90%	GC	k	579	662	87%	GC	k	264	288	92%	GC	k	638	702	91%
AS	a	845	987	86%	AS	a	758	894	85%	AS	a	127	133	95%	AS	a	483	547	88%
AS	b	203	239	85%	AS	b	143	172	83%	AS	b	56	63	89%	AS	b	408	461	89%
AS	c	52	62	84%	AS	c	39	44	89%	AS	c	33	36	92%	AS	c	70	75	93%
AS	d	273	308	89%	AS	d	234	267	88%	AS	d	61	61	100%	AS	d	43	45	96%
AS	e	58	71	82%	AS	e	53	64	83%	AS	e	108	114	95%	AS	e	252	265	95%
AS	f	47	58	81%	AS	f	25	33	76%	AS	f	66	68	97%	AS	f	149	152	98%
AS	g	94	108	87%	AS	g	92	110	84%	AS	g	250	262	95%	AS	g	111	126	88%
AS	h	355	401	89%	AS	h	306	356	86%	AS	h	122	127	96%	AS	h	377	424	89%
AS	i	640	747	86%	AS	i	649	769	84%	AS	i	196	235	83%	AS	i	359	424	85%
BS	a	694	821	85%	BS	a	589	699	84%	BS	a	330	351	94%	BS	a	633	694	91%
BS	b	590	665	89%	BS	b	506	574	88%	BS	b	293	303	97%	BS	b	327	364	90%
BS	c	174	197	88%	BS	c	103	120	86%	BS	c	123	131	94%	BS	c	263	280	94%
BS	d	205	219	94%	BS	d	215	254	85%	BS	d	142	157	90%	BS	d	258	281	92%
BS	e	538	617	87%	BS	e	414	478	87%	BS	e	304	325	94%	BS	e	652	716	91%
BS	f	380	435	87%	BS	f	283	340	83%	BS	f	246	258	95%	BS	f	650	697	93%
	ACT	8863	10130	87%		ACT	7620	8888	85%		ACT	5173	5559	93%		ACT	10507	11599	91%

ACT Graduate Exit Survey Findings (Indirect Measure 2)

criteria		2013	ACT Exit Survey Findings	
<b>1</b>	a	3.3	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET General Criteria 'a' was 3.3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>2</b>	b	3.4	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET General Criteria 'b' was 3.4. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>3</b>	c	3.3	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET General Criteria 'c' was 3.3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>4</b>	d	3.3	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET General Criteria 'd' was 3.3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>5</b>	e	3.5	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET General Criteria 'e' was 3.5. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met

<b>14</b>	c	3.2	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Associate Degree Program Specific Criteria 'c' was 3.2. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>15</b>	d	3.3	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Associate Degree Program Specific Criteria 'd' was 3.3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>16</b>	e	3.3	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Associate Degree Program Specific Criteria 'e' was 3.3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>17</b>	f	3.2	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Associate Degree Program Specific Criteria 'f' was 3.2. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>18</b>	g	3.2	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Associate Degree Program Specific Criteria 'g' was 3.2. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>19</b>	h	3.4	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Associate Degree Program Specific Criteria 'h' was 3.4. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>20</b>	i	3.3	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Associate Degree Program Specific Criteria 'i' was 3.3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>21</b>	a	3.3	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Baccalaureate Degree Program Specific Criteria 'a' was 3.3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>22</b>	b	3.3	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Baccalaureate Degree Program Specific Criteria 'b' was 3.3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>23</b>	c	3.3	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Baccalaureate Degree Program Specific Criteria 'c' was 3.3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>24</b>	d	3.5	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Baccalaureate Degree Program Specific Criteria 'd' was 3.5. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>25</b>	e	3.3	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Baccalaureate Degree Program Specific Criteria 'e' was 3.3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met
<b>26</b>	f	3.3	Average of 7 ratings on the evaluation category supporting 2013-2014 ABET Baccalaureate Degree Program Specific Criteria 'f' was 3.3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)	Met