

The University of Southern Mississippi

Detailed Assessment Report

As of: 10/01/2013 12:22 PM EST

2012-2013 Architectural Engineering Technology BS

(Includes those Action Plans with Budget Amounts marked One-Time, Recurring, No Request.)

graduates who possess the necessary skills, critical thinking, and communication skills to enter the A/E/C industry fully capable of performing in the field.

Student Learning Outcomes/Objectives, with Any Associations and Related Measures, Targets, Findings, and Action Plans

SLO 1:OBJ01 -- ABET General Criteria a

ACT students will have an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined engineering technology activities. (ABET General Criteria 'a')

Related Measures:

M 1:M1.1 -- ABET-GCa -- Assessment Aggregates

Aggregate of assessments for ABET General Criteria 'a'.

Source of Evidence: Academic direct measure of learning - other

Target:

80% of students receive a score of 70 (out of 100) or better on assessments supporting ABET General Criteria 'a'.

Findings (2012-2013) - Target: Met

94% (479 of 512) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'a'. FA12: F-F = 96% (236 of 245); ONL = 83% (15 of 18); SP13: F-F = 91% (194 of 213); ONL = 94% (34 of 35 of 2012-19 of 73-TJ -8

Target:

80% of students receive a score of 70 (out of 100) or better on assessments supporting ABET General Criteria 'c'.

Findings (2012-2013) - Target: Met

92% (33 of 36) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'c'. FA12: F-F = 86% (12 of 14); ONL = 100% (4 of 4); SP13: F-F = 94% (17 of 18); ONL = 0% (0 of 0);

M 6:M3.2 -- ABET-GCc -- Exit2(0 h02(43(E)A(G)Clu8(Cs)9(s)9(es)9(s)9(16(k)9(s)9(am)9(s)iTJ

Findings (2012-2013) - Target: Met

Average of 7 ratings on the evaluation category supporting 2012-2013 ABET General Criteria 'd' was 3.03. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)

SLO 5:OBJ05 -- ABET General Criteria e

ACT students will have an ability to function effectively as a member or leader on a technical team. (ABET General Criteria 'e')

Related Measures:

a M 9:Tf

Findings (2012-2013) - Target: Met

93% (395 of 423) of student work samples (projects, exams, quizzes,

SLO 8:OBJ08 -- ABET General Criteria h

ACT students will have an understanding of the need for and an ability to engage in self-directed continuing professional development. (ABET General Criteria 'h')

Related Measures:

M 15:M8.1 -- ABET-GCh -- Assessment Aggregates

Aggregate of assessments for ABET General Criteria 'h'.

Source of Evidence: Academic direct measure of learning - other

Target:

80% of students receive a score of 70 (out of 100) or better on assessments supporting ABET General Criteria 'h'.

Findings (2012-2013) - Target: Met

94% (117 of 125) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET General Criteria 'h'. FA12: F-F = 95% (61 of 64); ONL = 100% (4 of 4); SP13: F-F = 100% (18 of 18); ONL = 87% (34 of 39);

M 16:M8.2 -- ABET-GCh -- Exit/Alumni Survey Results

Continue to monitor
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Target:

80% of students receive a score of 70 (out of 100) or better on assessments supporting ABET Associate Degree Program Specific Criteria 'b'.

Findings (2012-2013) - Target: Met

89% (56 of 63) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Associate Degree Program Specific Criteria 'b'. FA12: F-F = 96% (24 of 25); ONL = 50% (3 of 6); SP13: F-F = 100% (6 of 6); ONL = 88% (23 of 26);

M 26:M13.2 -- ABET-ADb -- Exit/Alumni Survey Results

Exit and Alumni Survey results for ABET Associate Degree Program Specific Criteria 'b'.

Source of Evidence: Academic indirect indicator of learning - other

Target:

Average of scores on the evaluation category supporting ABET Associate Degree Program Specific Criteria 'b' will have a minimum rating of "satisfactory" (3 or higher out of 4).

Findings (2012-2013) - Target: Met

Average of 7 ratings on the evaluation category supporting 2012-2013 ABET Associate Degree Program Specific Criteria 'b' was 3.03. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)

SLO 14:OBJ14 -- ABET Associate Criteria c

ACT graduates are capable of conducting standardized field and laboratory testing on construction materials. (ABET Associate Degree Program Specific Criteria 'c')

Related Measures:

M 27:M14.1 -- ABET-ADc -- Assessment Aggregates

Aggregate of assessments for ABET Associate Degree Program Specific Criteria 'c'.

Source of Evidence: Academic direct measure of learning - other

Target:

80% of students receive a score of 70 (out of 100) or better on assessments supporting ABET Associate Degree Program Specific Criteria 'c'.

Findings (2012-2013) - Target: Met

92% (33 of 36) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Associate Degree Program Specific Criteria 'c'. FA12: F-F = 86% (12 of 14); ONL = 100% (4 of 4); SP13: F-F = 94% (17 of 18); ONL = 0% (0 of 0);

M 28:M14.2 -- ABET-ADc -- Exit/Alumni Survey Results

Exit and Alumni Survey results for ABET Associate Degree Program Specific Criteria 'c'.

Source of Evidence: Academic indirect indicator of learning - other

Target:

Average of scores on the evaluation category supporting ABET Associate Degree Program Specific Criteria 'c' will have a minimum rating of "satisfactory" (3 or higher out of 4).

Findings (2012-2013) - Target: Met

Average of 7 ratings on the evaluation category supporting 2012-2013 ABET Associate Degree Program Specific Criteria 'c' was 3.03. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)

SLO 15:OBJ15 -- ABET Associate Criteria d

ACT graduates are capable of utilizing modern instruments and research techniques for site development and building layout. (ABET Associate Degree Program Specific Criteria 'd')

Related Measures:

M 29:M15.1 -- ABET-ADd -- Assessment Aggregates

Aggregate of assessments for ABET Associate Degree Program Specific Criteria 'd'.

Source of Evidence: Academic direct measure of learning - other

Target:

80% of students receive a score of 70 (out of 100) or better on assessments supporting ABET Associate Degree Program Specific Criteria 'd'.

Findings (2012-2013) - Target: Met

100% (61 of 61) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Associate Degree Program Specific Criteria 'd'. FA12: F-F = 100% (13 of 13); ONL = 0% (0 of 0); SP13: F-F = 100% (48 of 48); ONL = 0% (0 of 0);

M 30:M15.2 -- ABET-ADd -- Exit/Alumni Survey Results

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ACT graduates are capable of determining forces and stresses in elementary structural systems. (ABET Associate Degree Program Specific Criteria 'e')

Related Measures:

M 31:M16.1 -- ABET-ADe -- Assessment Aggregates

Aggregate of assessments for ABET Associate Degree Program Specific Criteria 'e'.

Source of Evidence: Academic direct measure of learning - other

Target:

80% of students receive a score of 70 (out of 100) or better on assessments supporting ABET Associate Degree Program Specific Criteria 'e'.

Findings (2012-2013) - Target: Met

95% (108 of 114) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Associate Degree Program Specific Criteria 'e'. FA12: F-F = 97% (93 of 96); ONL = 0% (0 of 0); SP13: F-F = 0% (0 of 0); ONL = 83% (15 of 18);

M 32:M16.2 -- ABET-ADe -- Exit/Alumni Survey Results

Exit and Alumni Survey results for ABET Associate Degree Program Specific Criteria 'e'.

Source of Evidence: Academic indirect indicator of learning - other

Target:

Average of scores on the evaluation category supporting ABET Associate Degree Program Specific Criteria 'e' will have a minimum rating of "satisfactory" (3 or higher out of 4).

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Findings (2012-2013) - Target: Met

97% (66 of 68) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Associate Degree Program Specific Criteria 'f'. FA12: F-F = 100% (7 of 7); ONL = 100% (2 of 2); SP13: F-F = 100% (41 of 41); ONL = 89% (16 of 18);

M 34:M17.2 -- ABET-ADf -- Exit/Alumni Survey Results

Exit and Alumni Survey results for ABET Associate Degree Program Specific Criteria 'f'.

Source of Evidence: Academic indirect indicator of learning - other

Target:

Average of scores on the evaluation category supporting ABET Associate Degree Program Specific Criteria 'f' will have a minimum rating of "satisfactory" (3 or higher out of 4).

Findings (2012-2013) - Target: Met

Average of 7 ratings on the evaluation category supporting 2012-2013 ABET Associate Degree Program Specific Criteria 'f' was 3.03. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)

SLO 18:OBJ18 -- ABET Associate Criteria g

ACT graduates are capable of calculating basic loads and demands in mechanical and electrical systems. (ABET Associate Degree Program Specific Criteria 'g')

Related Measures:

M 35:M18.1 -- ABET-ADg -- Assessment Aggregates

Aggregate of assessments for ABET Associate Degree Program Specific Criteria 'g'.

Source of Evidence: Academic direct measure of learning - other

Target:

80% of students receive a score of 70 (out of 100) or better on assessments supporting ABET Associate Degree Program Specific Criteria 'g'.

Findings (2012-2013) - Target: Met

95% (250 of 262) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Associate Degree Program Specific Criteria 'g'. FA12: F-F = 97% (201 of 208); ONL = 0% (0 of 0); SP13: F-F = 89% (39 of 44); ONL = 100% (10 of 10);

M 36:M18.2 -- ABET-ADg -- Exit/Alumni Survey Results

Exit and Alumni Survey results for ABET Associate Degree Program Specific Criteria 'g'.

Source of Evidence: Academic indirect indicator of learning - other

Target:

Average of scores on the evaluation category supporting ABET Associate

Degree Program Specific Criteria 'g' will have a minimum rating of

Aggregate of assessments for ABET Associate Degree Program Specific Criteria 'i'.

Source of Evidence: Academic direct measure of learning - other

Target:

80% of students receive a score of 70 (out of 100) or better on assessments supporting ABET Associate Degree Program Specific Criteria 'i'.

Findings (2012-2013) - Target: Met

83% (196 of 235) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Associate Degree Program Specific Criteria 'i'. FA12: F-F = 100% (30 of 30); ONL = 50% (3 of 6); SP13: F-F = 81% (150 of 186); ONL = 100% (13 of 13);

M 40:M20.2 -- ABET-ADi -- Exit/Alumni Survey Results

Exit and Alumni Survey results for ABET Associate Degree Program Specific Criteria 'i'.

Source of Evidence: Academic indirect indicator of learning - other

Target:

M 42:M21.2 -- ABET-BSa -- Exit/Alumni Survey Results

ABET Baccalaureate Degree Program Specific Criteria 'b' was 3.03. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)

SLO 23:OBJ23 -- ABET BS Criteria c

ACT graduates are capable of selecting appropriate materials and practices for building construction. (ABET Baccalaureate Degree Program Specific Criteria 'c')

Related Measures:

M 45:M23.1 -- ABET-BSc -- Assessment Aggregates

Aggregate of assessments for ABET Baccalaureate Degree Program Specific Criteria 'c'.

Source of Evidence: Academic direct measure of learning - other

Target:

80% of students receive a score of 70 (out of 100) or better on assessments supporting ABET Baccalaureate Degree Program Specific Criteria 'c'.

Findings (2012-2013) - Target: Met

94% (123 of 131) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Baccalaureate Degree Program Specific Criteria 'c'.
FA12: F-F = 95% (58 of 61);0.326 c'.

Target:

80% of students receive a score of 70 (out of 100) or better on assessments supporting ABET Baccalaureate Degree Program Specific Criteria 'd'.

Findings (2012-2013) - Target: Met

90% (142 of 157) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Baccalaureate Degree Program Specific Criteria 'd'.
FA12: F-F = 84% (63 of 75); ONL = 0% (0 of 0); SP13: F-F = 100% (48 of 48); ONL = 91% (31 of 34);

M 48:M24.2 -- ABET-BSd -- Exit/Alumni Survey Results

Exit and Alumni Survey results for ABET Baccalaureate Degree Program Specific Criteria 'd'.

Source of Evidence: Academic indirect indicator of learning - other

Target:

Average of scores on the evaluation category supporting ABET Baccalaureate Degree Program Specific Criteria 'd' will have a minimum rating of "satisfactory" (3 or higher out of 4).

Findings (2012-2013) - Target: Met

Average of 7 ratings on the evaluation category supporting 2012-2013 ABET Baccalaureate Degree Program Specific Criteria 'd' was 3.03. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)

Exit and Alumni Survey results for ABET Baccalaureate Degree Program Specific Criteria 'e'.

Source of Evidence: Academic indirect indicator of learning - other

Target:

Average of scores on the evaluation category supporting ABET Baccalaureate Degree Program Specific Criteria 'e' will have a minimum rating of "satisfactory" (3 or higher out of 4).

Details of Action Plans for This Cycle (by Established cycle, then alpha)

ACT 262 Architectural Design I

In this case, 11 of 18 ACT students (61%) are performing at or above 70, which is less than the target level of 80% of total students.

Established in Cycle: 2010-2011
Implementation Status: Terminated
Priority: High

Relationships (Measure | Outcome/Objective):

Measure: M11.1 -- ABET-GCk -- Assessment Aggregates | **Outcome/Objective:** OBJ11 -- ABET General Criteria k
Measure: M12.1 -- ABET-ADa -- Assessment Aggregates | **Outcome/Objective:** OBJ12 -- ABET Associate Criteria a

Implementation Description: Action plan is to improve student-teacher communication about the requirements of the assessment. Faculty member terminated

Responsible Person/Group: Miranda Grieder

Continue to monitor

Small graduate exit survey sample size; but finding close to target--continue to monitor.

Established in Cycle: 2012-2013
Implementation Status: In-Progress
Priority: Medium

Relationships (Measure | Outcome/Objective):

Measure: M10.2 -- ABET-GCj -- Exit/Alumni Survey Results |
Outcome/Objective: OBJ10 -- ABET General Criteria j

Responsible Person/Group: Fletcher

Analysis Questions and Analysis Answers

What specifically did your assessments show regarding proven strengths or progress you made on outcomes/objectives?

Since we implemented a course-based approach to assessment in the 2010-2011 cycle, there has been a marked improvement in findings: the average of all outcomes has increased from 87% to 93% in the current 2012-2013 cycle. Indeed, only four criteria

The strength of our approach using course-based findings also requires continued attention since faculty are continually reassigned to new courses. We annually re-present assessment materials to the faculty; and, this year we have three new faculty that will need the presentations to understand the School of Construction approach to course-based findings and how to proactively evaluate their course objective findings for preemptive strategies in course delivery.

