M2.2: (ABET-GCb) Exit and Alumni Survey results for ABET General Criteria 'b'.

Source of Evidence: Academic indirect indicator of learning - other

Target:
80% of scores on the evaluation category supporting ABET General Criteria 'b' will have a minimum rating of "satisfactory" (3 or higher out of 5).

SLO 3:OBJ03 -- ABET General Criteria c

BCT students will have an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes. (ABET General Criteria 'c')

Related Measures:

M 5:M3.1 -- ABET-GCc -- Assessment Aggregates

M3.1: (ABET-GCc) Aggregate of assessments for ABET General 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 General Criteria 'c'.

Findings (2013-2014) - Target: Met
90% (139 of 154) 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 = 96% (27 of 28); ONL = 83% (43 of 52); SP14: F-F = 100% (26 of 26); ONL = 90% (43 of 48);

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

BCT 205 Surveying
Established in Cycle: 2010-2011

SLO 4:OBJ04 -- ABET General Criteria d

BCT students will have an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives. (ABET General Criteria 'd')

Related Measures:

M 7:M4.1 -- ABET-GCd -- Assessment Aggregates

M4.1: (ABET-GCd) Aggregate of assessments for ABET General 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 General Criteria 'd'.

Findings (2013-2014) - Target: Met

89% (1,073 of 1,201) 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 = 83% (55 of 66); ONL = 93% (363 of 392); SP14: F-F = 0% (0 of 0); ONL = 88% (655 of 743);

M 8:M4.2 -- ABET-GCd -- Exit/Alumni Survey Results

M4.2: (ABET-GCd) Exit and Alumni Survey results for ABET General Criteria 'd'.

Target:

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

Findings (2013-2014) - Target: Not Met
71% (390 of 548) 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 = 66% (118 of 180); ONL = 0% (0 of 0); SP14: F-F = 0% (0 of 0); ONL = 74% (272 of 368);

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

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

Related Measures:

M 29:M15.1 -- ABET-ADd -- Assessment Aggregates
M15.1: (ABET-ADd) 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 (2013-2014) - Target: Met
93% (38 of 41) 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 FA13: F-F = 0% (0 of 0); ONL = 84% (16 of 19); SP14: F-F = 100% (4 of 4); ONL = 100% (18 of 18);

M 30:M15.2 -- ABET-ADd -- Exit/Alumni Survey Results
M15.2: (ABET-ADd) Exit and Alumni Survey results for ABET Associate Degree Program Specific Criteria 'd'.

Source of Evidence: Academic indirect indicator of learning - other

Target:
80% of scores on the evaluation category supporting ABET Associate Degree Program Specific Criteria 'd' will have a minimum rating of "satisfactory" (3 or higher out of 5).

Findings (2013-2014) - Target: Not Met
Average of 19 ratings on the evaluation category supporting 2013-2014 ABET Associate Degree Program Specific Criteria 'd' was 2.9. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

M 37:M19.1 -- ABET-BSb -- Assessment Aggregates

M19.1: (ABET-BSb) Aggregate of assessments for ABET Baccalaureate Degree Program Specific Criteria 'b'.

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 'b'.

Findings (2013-2014) - Target: Met
83% (861 of 1,034) 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 'b FA13: F-F = 82% (282 of 346); ONL = 86% (132 of 154); SP14: F-F = 88% (15 of 17); ONL = 84% (432 of 517);

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

BCT 486 Project Controls
Established in Cycle: 2010-2011

Average scores were all passing with exception of 1 quiz. Some had perfect scores. Plan to evaluate low scoring questio...

M 38:M19.2 -- ABET-BSb -- Exit/Alumni Survey Results

M19.2: (ABET-BSb) Exit and Alumni Survey results for ABET Baccalaureate Degree Program Specific Criteria 'b'.

Source of Evidence: Academic indirect indicator of learning - other

Target:
80% of scores on the evaluation category supporting ABET Baccalaureate Degree Program Specific Criteria 'b' will have a minimum rating of "satisfactory" (3 or higher out of 5).

Findings (2013-2014) - Target: Met
Average of 19 ratings on the evaluation category supporting 2013-2014 ABET Baccalaureate Degree Program Specific Criteria 'b' was 3.1. (4 =

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 (2013-2014) - Target: Met
90% (564 of 627) 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 FA13: F-F = 90% (123 of 136); ONL = 86% (133 of 155); SP14: F-F = 96% (66 of 69); ONL = 91% (242 of 267);

M 40:M20.2 -- ABET-BSc -- Exit/Alumni Survey Results
M20.2: (ABET-BSc) Exit and Alumni Survey results for ABET Baccalaureate Degree Program Specific Criteria 'c'.

Source of Evidence: Academic indirect indicator of learning - other

Target:
80% of scores on the evaluation category supporting ABET Baccalaureate Degree Program Specific Criteria 'c' will have a minimum rating of "satisfactory" (3 or higher out of 5).

Findings (2013-2014) - Target: Met
Average of 19 ratings on the evaluation category supporting 2013-2014 ABET Baccalaureate Degree Program Specific Criteria 'c' was 3.1. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)

SLO 21:OBJ21 -- ABET BS Criteria d
BCT graduates are capable of applying principles of construction law and ethics. (ABET Baccalaureate Degree Program Specific Criteria 'd')

Related Measures:

M 41:M21.1 -- ABET-BSd -- Assessment Aggregates
M21.1: (ABET-BSd) Aggregate of assessments for ABET Baccalaureate 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 Baccalaureate Degree Program Specific Criteria 'd'.

Findings (2013-2014) - Target: Met
80% (582 of 731) of student work samples (projects, exams, quizzes, papers) were scored 70 (out of 100) or better on all assessments supporting ABET Bacents

supporting ABET Bac

Target:
80% 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 5).

Findings (2013-2014) - Target: Met
Average of 19 ratings on the evaluation category supporting 2013-2014 ABET Baccalaureate Degree Program Specific Criteria 'e' was 3. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)

SLO 23:OBJ23 -- ABET BS Criteria f

BCT graduates are capable of performing standard analysis and design in at least one recognized technical specialty within construction engineering technology that is appropriate to the goals of the (o)222(at)26(e D)12. t4accal1Tw4nee2(BB1(e)p 0 ne'B4' 323e Dhat Truer80%T0 1 cal1ogynia 'n(gy)s0 TJ -0 ei( )]vti1oto3

Degree Program Specific Criteria 'f' will have a minimum rating of "satisfactory" (3 or higher out of 5).

Findings (2013-2014) - Target: Not Met
Average of 19 ratings on the evaluation category supporting 2013-2014 ABET Baccalaureate Degree Program Specific Criteria 'f' was 2.9. (4 = Very True; 3 = True; 2 = Somewhat True; 1 = Not True)

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

Increase Exit Survey Sample
Established in Cycle: 2013-2014
Because student degree plan checks did not include completion of the department exit survey, the sample for this measure was sma...

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

BCT 205 Surveying

Review and help sessions will be conducted before midterm and final exam.

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

Relationships (Measure | Outcome/Objective):
Measure: M1.1 -- ABET-GCa -- Assessment Aggregates | **Outcome/Objective:** OBJ01 -- ABET General Criteria a
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
Measure: M14.1 -- ABET-ADc -- Assessment Aggregates | **Outcome/Objective:** OBJ14 -- ABET Associate Criteria c
Measure: M17.1 -- ABET-ADf -- Assessment Aggregates | **Outcome/Objective:** OBJ17 -- ABET Associate Criteria f
Measure: M18.1 -- ABET-BSa -- Assessment Aggregates | **Outcome/Objective:** OBJ18 -- ABET BS Criteria a
Measure: M23.1 -- ABET-BSf -- Assessment Aggregates | **Outcome/Objective:** OBJ23 -- ABET BS Criteria f
Measure: M3.1 -- ABET-GCc -- Assessment Aggregates | **Outcome/Objective:** OBJ03 -- ABET General Criteria c
Measure: M5.1 -- ABET-GCe -- Assessment Aggregates | **Outcome/Objective:** OBJ05 -- ABET General Criteria e
Measure: M6.1 -- ABET-GCf -- Assessment Aggregates | **Outcome/Objective:** OBJ06 -- ABET General Criteria f

BCT 480 Safety

The 6 students who did not perform well on the OSHA self-test did not understand the content covered in order to do well on the test. The instructor is revisiting the content

and providing the students mutiple exposure and examples to key facts and concepts in an effort to improve retention of the material.

Established in Cycle: 2010-2011
Implementation Status: In-Progress
Priority: Medium

Relationships (Measure | Outcome/Objective):
Measure: M16.1 -- ABET-ADe -- Assessment Aggregates | **Outcome/Objective:** OBJ16 -- ABET Associate Criteria e

Responsible Person/Group: Doris Kemp

BCT 486 Project Controls

Average scores were all passing with exception of 1 quiz. Some had perfect scores.

Relationships (Measure | Outcome/Objective):
Measure: M7.1 -- ABET-GCg -- Assessment Aggregates | **Outcome/Objective:** OBJ07 -- ABET General Criteria g

Responsible Person/Group: Jeff Hannon (Coordinator)

BCT Coursework Action Plans

Increase Exit Survey Sample

Because student degree plan checks did not include completion of the department exit survey, the sample for this measure was small.

Established in Cycle: 2013-2014
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
Measure: M4.2 -- ABET-GCd -- Exit/Alumni Survey Results | **Outcome/Objective:** OBJ04 -- ABET General Criteria d

Implementation Description: Require degree plan check to ensure exit survey is taken.
Responsible Person/Group: Keith Sylvester (Director); Jeff Hannon (Coordinator)

Analysis Questions and Analysis Answers

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

The Construction Engineering Technology (BCT) program has mapped its course assessments to ETAC-ABET's 'Criteria for Accrediting Engineering Technology Programs' since 2010. This year's findings show strengths in the following areas: ETAC-ABET General Criteria Outcomes: b. an ability to apply current knowledge and adapt to emerging applications of mathematics, science and technology (88% of 1,939 assessments scoring 70% or greater). d. an ability to apply creativity in the design of systems, components, or processes appropriate to program educational objectives (89% of 1,201 assessments scoring 70% or greater). k. a commitment to quality, timeliness, and continuous improvement (89% of 1,452 assessments scoring 70% or greater). ETAC-ABET Degree Specific Outcomes: a. producing and utilizing design, construction, and operations documents (86% of 827 assessments scoring 70% or greater). b. performing economic analyses and cost estimates related to design, construction, and maintenance of systems in the construction technical specialties (83% of 1,034 assessments scoring 70% or greater). c. selecting appropriate construction materials and practices (90% of 627 assessments scoring 70% or greater). e. applying basic technical concepts to the solution of construction problems involving hydraulics and hydrology, geotechnics, structures, construction scheduling and management, and construction safety (85% of 2273 assessments scoring 70% or greater). f. performing standard analysis and design in at least one recognized technical specialty within construction engineering technology that is appropriate to the goals of the program (84% of 1,667 assessments scoring 70% or greater). All of these outcomes have remained relatively constant since 2010-2011 (data was not collected in 2012-2013).

What specifically did your assessments show regarding any outcomes/objectives that will require continued attention?

This year's findings show concern in the following areas: ETAC-ABET General Criteria Outcomes: a. an appropriate mastery of the knowledge, techniques, skills, and modern tools of their disciplines (76% of 1,939 assessments scoring 70% or greater). e. an ability to function effectively on teams (74% of 1,354 assessments scoring 70% or greater). g. an ability to communicate effectively (79% of 2,057 assessments scoring