Program Plan and Findings: Four Column Layout

Program (CEAT) - ARCH - Architectural Engineering (BEN) - 020

Program Mission Statement: The School of Architecture and Architectural Engineering prepares future architects and architectural engineers to make vital contributions to humanity through the creation of architecture. The School focuses its unique combination of accredited programs in architecture and architectural engineering to prepare and inspire students for the professional leadership roles and responsibilities required to shape the physical environment and to have a positive impact on the social, economic and cultural qualities of life in Oklahoma and the entire international context.

The School of Architecture endeavors to instill in each individual a sensitivity to human needs, a genuine concern for quality, integrity and high ideals, a positive attitude for life-long learning, and an appreciation for one's own self-esteem.

The "concept" for our school and the focus of our studios is to mirror the societal responsibilities of our profession and to promote a thoughtfully designed response to the environmental needs of our culture.

The range of design concerns, from the scale and needs of a single individual to the collective interaction of thousands, are studied and responded to in a project to project sequence throughout the five year undergraduate program.

An emphasis on providing a service to the university and the public enhances the design studio experience, and provides an opportunity for each student to make a contribution to their community, their state and nation.

Program Information

2019 - 2020

Program Information

Assessment Coordinator's Name: Tom Spector

Assessment Coordinator's E-mail Address: tom.spector@okstate.edu

Number of Students Enrolled in the Program: 90

Total Number of Students Graduated: 13

Number of Student Graduates from Stillwater Campus: 13

Were university assessment funds used by the department/program for assessment activities?: Yes

If yes, describe how funds were used and the contribution the funds had on the assessment process: professional engineers were invited to juror student work in the capstone studio project. They each received a small stipend.

Number of Student Graduates from Tulsa Campus: 0

Annual Executive Summaries

2019 - 2020

Program Assessment Coordinator: Tom Spector

Plan Review and Approval

Date Current Plan Was Reviewed and Approved: 02/01/2020
Date of Future Plan Review and Approval: 02/04/2021

Summary of Assessment Findings

Describe overall assessment findings and faculty members' interpretation of the assessment results: no changes to the curriculum are necessitated by the report. Overall, the assessment scores have risen in the last 3 years. That this year's assessment results from all three categories exceeded expectations indicate that this was an exceptionally strong class of architectural engineering students.

Dissemination of Findings

Describe the individual(s) or committee responsible for reviewing and interpreting assessment data: School of Architecture assessment committee and School of Architecture Architectural Engineering assessment coordinator review in fall of 2020 to coordinate the next assessment and review the findings. These findings will inform preparation for the upcoming accreditation visit in 2021.

Describe the process for sharing and discussing assessment findings with program faculty: A review of the findings are shared to the entire SOA faculty at a faculty meeting in spring semester

Program Improvements Based on Assessment

Based on data collected this year, what changes are being considered or planned for the program?: no changes to the program based on assessment data.

Based on this year's findings, what (if any) changes are planned for the assessment process?: no changes are planned for the assessment process. We were able to continue to gather external professional reviews of student work remotely at the end of spring semester 2020 and can do so again if necessary.

Describe the process for implementing these changes/planned program improvements: assessment outcomes and any concerns are presented to the entire faculty in spring semester to determine if any program changes are needed.

Program Improvements Made in the Last Year: Curriculum Improvements

"Other" Improvements:

Goals for the Coming Year: We began working in spring 2020 to insure that our data collection on student performance was robust enough to survive pandemic instruction.

Is this Summary Report Complete?: Yes

List all individuals associated with this report preparation: Tom Spector

Outcomes	Assessment Methods	Findings	Use of Findings (Actions)
Creative Problem Solving - Ability to solve engineering problems (creative problem solving) **Outcome Status:** Active **Planned Assessment Year:** 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020 **Start Date:** 09/03/2018 **Archived Date:** **Outcome Type:** Skills **Reason for Archival:**	**Capstone Assignment -** An invited jury of practicing professionals assessed the fifth year students in Arch 5226 on two occasions during the semester: at schematic design juries in February and again at the Design Development juries in April. They review and assess the entire class's work. The professionals were asked to assess student proficiency at Learning Outcome 1. Three questions which go into making a composite score for this learning outcome were: • The student revealed an	**Reporting Period:** 2019 - 2020 **Conclusion:** 4 - Exceeds Program Expectations (Advanced) the juror's combined average score of 4.56 exceeds our expectations for this learning outcome (09/10/2020) **Number of Students Assessed:** 12 **Number of Successful Students:** 12 **How were students selected to participate in the assessment of this outcome?:** all students in Arch 5116 -- AE capstone studio were assessed. **What do the findings suggest about student achievement of this learning outcome?:** no changes required	**Use of Findings (Actions):** report findings to full faculty in early 2020. (09/10/2020)

Outcomes	Assessment Methods	Findings	Use of Findings (Actions)

understanding of relevant structural system issues.
• The student revealed the ability to develop a structural system.
• The student revealed the ability to use tools necessary for engineering practice.
* Learning Outcome Goal/Benchmark: We consider a composite average of 3.5 or better to indicate adequate performance for the students as a whole. A score of 3 - 3.5 merits concern. A score less than 3.0 merits action.
Timeline for Assessment: twice during the spring semester every year.
Other Assessment Type:

Communication - Ability to communicate ideas effectively
Outcome Status: Active
Planned Assessment Year: 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020
Start Date: 09/03/2018
Archived Date:
Outcome Type: Skills
Reason for Archival:

Course Project - A jury of invited professionals fills out an assessment form on each student based on presentations made of their work to the assembled group.

* Learning Outcome Goal/Benchmark: A score of 3.5 is considered by the assessment committee to be satisfactory. A score of 3-3.5 merits concern and a score below 3 merits action.
Timeline for Assessment: Yearly
Other Assessment Type:

Reporting Period: 2019 - 2020
Conclusion: 4 - Exceeds Program Expectations (Advanced) combined average score of 4.64 exceeds expectations for this learning outcome. (09/10/2020)
Number of Students Assessed: 12
Number of Successful Students: 12
How were students selected to participate in the assessment of this outcome?: all students in Arch 5116 AE Capstone design studio were selected.
What do the findings suggest about student achievement of this learning outcome?: no changes needed.

Use of Findings (Actions): report to entire faculty in spring 2020. (09/10/2020)

Design Process - Understanding the overall engineering design process
Outcome Status: Active
Planned Assessment Year: 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020
Start Date: 09/03/2018

Course Project - invited professional jurors evaluate each 5th year engineering student's work in the capstone Comprehensive Design Studio.
* Learning Outcome Goal/Benchmark: We regard an

Reporting Period: 2019 - 2020
Conclusion: 4 - Exceeds Program Expectations (Advanced) combined jurors' score of 4.69 exceeds expectations. (09/10/2020)
Number of Students Assessed: 12
Number of Successful Students: 12
How were students selected to participate in the

Use of Findings (Actions): findings will be reported to entire faculty in spring 2020. (09/10/2020)

Outcomes	Assessment Methods	Findings	Use of Findings (Actions)
Archived Date: **Outcome Type:** Knowledge **Reason for Archival:**	overall score of 3.5 or greater to be evidence of satisfactory learning outcomes. A score of 3.0-3.5 is an area of concern, and a score below 3.0 is an area requiring action. **Timeline for Assessment:** Yearly **Other Assessment Type:**	**assessment of this outcome?:** all students in Arch 5116 Capstone design studio are assessed **What do the findings suggest about student achievement of this learning outcome?:** no program changes needed.	