BGSU®
BOWLING GREEN STATE UNIVERSITY
Department of Construction Management

October 21, 2022
Kokosing Hall Conference Room
1:30 p.m.

Construction Management Department
SLO Annual Review Meeting for Fall 2022

Agenda

1. Welcome
2. Review Document "CM Assessment and Implementation Plan" entitled "Construction Management Department Mission".
   ACTION: none required
   a. New faculty familiarization
   b. Provides an introduction to assessment thresholds and process

3. Review Document "01 SLO Assessment Methods Report REV OCT 2021".
   ACTION: Faculty members to review SLO descriptions and provide any changes or updates following the meeting.
   a. Know which SLOs are your responsibilities.
   b. Continue with the instrument being used to track the SLO or create a new instrument. The instrument should be an assignment, a project, a test, or extracted questions from a test. If one assignment is sufficient, it is easier than tracking multiple assignments.
   c. Provide the results in a timely manner.

4. Document "02 SLO Course Assessment Spreadsheet Matrix 2021 – 2022 Updated FALL 2022".
   ACTION: Review the matrix for any changes for the next school year.
   a. I = Introduced, R = Reinforced, DA = Direct Assessment
   b. 1 Direct Assessment, 1 Indirect Assessment

5. SLO Review – Year 2 Student Learning Outcomes
   (evaluating year 2 of the SLO review cycle)
   ACTION: Review the seven Year 2 SLO's, using the following documents: "03 SLO Direct Assessment Data", "04 SLO Senior Exit Survey Data", "05 SLO AIC Exam Data" documents relating to the following SLO's:

   a. SLO 1 - Create written communications appropriate to the construction discipline.
   b. SLO 2 - Create oral presentations appropriate to the construction discipline.
   c. SLO 7 - Analyze construction documents for planning and management of construction processes.

College of Technology
126 Technology Building
Bowling Green, Ohio 43403-0280
Phone: 419-372-5439
Fax 419-372-6881
www.bgsu.edu

d. SLO 9 - Apply construction management skills as a member of a multidisciplinary team.
e. SLO 12 - Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.
f. SLO 14 - Understand construction accounting and cost control.
g. SLO 20 - Understand the basic principles of mechanical, electrical and piping systems.

6. *Please note due to Scott's departure we are rebuilding data from Spring 2022 for "04 SLO Senior Exit Survey Data"*

7. Open discussion

8. Adjourn

BGSU®
BOWLING GREEN STATE UNIVERSITY
Department of Construction Management

October 21, 2022
Kokosing Hall Conference Room
1:30 p.m.

Minutes
Construction Management Department
SLO Annual Review Meeting for Fall 2022

Attendance: Alan Atalah, Linda Beall, Shirley Tandoh, (remote), Lisa Schaller, Arsenio Rodrigues
Excused: Joe Lavalette

Item 1: Review Document "01 SLO Assessment Methods Report REV OCT 2021".
ACTION: Faculty members to review SLO descriptions and provide any changes or updates following the meeting.

a. Linda will make updates and distribute
b. Linda will send SLO Direct Assessment data spreadsheets for Fall 2022 and again in Spring 2023

Item 2: Review Document "02 SLO Course Assessment Spreadsheet Matrix 2021 – 2022 Updated FALL 2022".
ACTION: Review the matrix for any changes for the next school year.

c. I = Introduced, R = Reinforced, DA = Direct Assessment
d. 1 Direct Assessment, 1 Indirect Assessment

Item 3: SLO Review – Year 2 Student Learning Outcomes
(evaluating year 2 of the SLO review cycle)
ACTION: Review the seven Year 2 SLO's, using the following documents: "03 SLO Direct Assessment Data", "04 SLO Senior Exit Survey Data", "05 SLO AIC Exam Data" documents relating to the following SLO's:

a. SLO 1 - Create written communications appropriate to the construction discipline.
b. SLO 2 - Create oral presentations appropriate to the construction discipline.
c. SLO 7 - Analyze construction documents for planning and management of construction processes.
d. SLO 9 - Apply construction management skills as a member of a multidisciplinary team.
e. SLO 12 - Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.
f. SLO 14 - Understand construction accounting and cost control.

**College of Technology**
126 Technology Building
Bowling Green, Ohio 43403-0280
Phone: 419-372-5439
Fax 419-372-6881
www.bgsu.edu

g. SLO 20 - Understand the basic principles of mechanical, electrical and piping systems.

Item 3: SLO Review

SLO 1 - Create written communications appropriate to the construction discipline.

- The SLO is assessed through the submittal of a Scope Letter in CONS 3590 Estimating and Cost Control.
- The SLO review determined that no changes were needed for this assessment.

SLO 2 - Create oral presentations appropriate to the construction discipline.

- The SLO is assessed through the final presentation in CONS 4700 Senior Construction Capstone
- The SLO review determined that no changes were needed for this assessment.

SLO 7 - Analyze construction documents for planning and management of construction processes.

- The SLO is assessed through the final examination in CONS 2590 Construction Document Reading.
- The SLO review determined that no changes were needed for this assessment.

SLO 9 - Apply construction management skills as a member of a multidisciplinary team.

- The SLO is assessed through the final project in CONS 4700 Senior Construction Capstone.
- The capstone project teams are evaluated by the instructor as well as through a peer evaluation tool where members of the team both self-evaluate as well as evaluate other members of the team.
- Team membership is assigned at the beginning of the term by the instructor rather than self-selected groups.

SLO 12 - Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.

- The SLO is assessed through the two quizzes in CONS 4400 Construction Contracting.
- The quizzes cover Chapters 1 and 4 in the current textbook and may need to be updated or re-titled for consistency from semester to semester or with a change in textbook.
- A suggestion would be to determine or re-title the quiz assessments by content rather than by Chapter indication.

SLO 14 - Understand construction accounting and cost control.

- The SLO is assessed through the cost control assignment in CONS 4590 Construction Estimating Computer Applications
- CONS 4590 is the second of a two-course sequence delivering topics in estimating, accounting, and cost control.
- These topics are reinforced in the CONS 4700 Senior Construction Capstone course.
- A particularly significant lack of success on the AIC Examination: added review in the CONS 4700 course emphasizing cost-loaded scheduling

SLO 20 - Understand the basic principles of mechanical, electrical, and piping systems.

- The SLO is assessed through the final examination in CONS 3370 Mechanical, Electrical and Plumbing Systems in Buildings

Additional comments from ongoing course improvement:

SLO 3 – Create a construction safety plan

- The SLO is assessed through the development of a construction safety plan in CONS 4110 Safety/Health Management
- The course continues the Department's intention to integrate industrial certifications with academic content. The course integration of the OSHA-30 examination and the use of Adjunct Instructor Mark Prenzlin who has current expertise in the topic has been a positive development.
- Safety concepts are introduced in CONS 2350 Introduction to Construction and the development and presentation of a Construction Safety Plan is a requirement for the CONS 4700 Senior Construction Capstone project.
- The department will continue to review the course results in correlation with the AIC results for this SLO.

SLO 4 – Create construction cost estimates

- Three courses within the curriculum have been re-sequenced and reworked to better prepare students for estimating. The three courses taken in sequence include, CONS 2590 Document Reading, CONS 3590 Estimating and Cost Control, and CONS 4590 Construction Estimating Computer Applications.
- In CONS 3390 Estimating and Cost Control, more emphasis should be made on creating conceptual estimates. This can include the introduction to RS Means catalogs, including square foot pricing and adjustments for perimeter to are calculations, as an alternative method for pricing and the use of conceptual estimates.
- In addition to core course content, the Department has reinstated its participation in three cost estimating competitions for heavy highway and commercial construction. The department sent a team to the Associated General Contractors Region III fall 2021 competition in Chicago, IL and in the spring semester of

2023 sent a junior/senior team to the Ohio Contractor's Association Cost Estimating competition in Columbus, OH and a freshman/sophomore team to Cincinnati, OH for the New Builder's, (New-B), Cost Estimating competition. The cost estimating teams were coached by BGSU faculty and multiple external industry advisors with specializations in the appropriate fields of construction.

SLO 18 – Understand the basic principles of sustainable construction.

- As an introduction to the topic, two additional lectures have been added to CONS 2350 Introduction to Construction and the topic is evaluated in both the first and final examinations for the course.
- In order to reinforce the importance of the topic, a lecture and assignment has been added to the CONS 3590 Estimating and Cost Control class to discuss the contractor's involvement in a LEED certified project.
- After the 2017 accreditation visit, it was determined that the CONS 4000 LEED and Lean Fundamentals course would become a core class in the CONS curriculum.
- It was determined that this SLO will be evaluated in CONS 4000, LEED and Lean Fundamentals, beginning with the spring 2023 semester, (course not offered in fall 2022)
- Faculty should also incorporate this topic into their courses, when appropriate.

2. *Please note due to Scott's departure: we are rebuilding data from Spring 2022 for "04 SLO Senior Exit Survey Data"*

3. Open discussion

4. Adjourn