

SCHOOL OF THE BUILT ENVIRONMENT
DEPARTMENT OF CONSTRUCTION MANAGEMENT

'Faculty - Course Self Evaluation' Assessment Report
Spring 2018

Dated: July 13, 2019

BOWLING GREEN STATE UNIVERSITY

ASSESSMENT PARTICULARS:

No. of Surveys Distributed: Fourteen (14) Surveys

No. of Surveys Returned: Eight (8) Surveys

No. of Courses Evaluated: Eight (8) Courses

List of Courses Evaluated: CONS 3180 - Construction Surveying
CONS 3350 - Construction Materials and Testing
CONS 3360 - Structural Design
CONS 3380 - Steel, Concrete and Masonry Design
CONS 4110 - Construction Safety and Health Management
CONS 4350 - Construction Methods and Practices
CONS 4420 - Construction Scheduling
CONS 4700 - Construction Capstone

Assessment Criteria: Overall level of preparation of students in the course against each of the ACCE student learning outcomes (SLO) listed by means of Likert Scale:
- Very High (Assigned Score = 5.00)
- High (Assigned Score = 4.00)
- Average (Assigned Score = 3.00)
- Low (Assigned Score = 2.00)
- Very Low (Assigned Score = 1.00)

ACCE SLO Reference: See Appendix for SLO descriptions

CONS 3180 - Construction Surveying

Instructor: Joseph lavalette

| ACCE SLO | SLO 1 | SLO 11 |
|----------|---------|---------|
| Rating | 3 | 3 |
| Score | Average | Average |

Improvements/recommendations (self-reflection) for next offering of course:

- Better engagement of individuals in team environment. Make P.M. responsible to create a more engaging atmosphere.

CONS 3350 - Construction Materials and Testing

Instructor: Robert Austin

| ACCE SLO | SLO 15 |
|----------|---------|
| Rating | 3 |
| Score | Average |

Improvements/recommendations (self-reflection) for next offering of course:

- Continue building students writing skills by highly incentivizing adherence to specified formatting requirements, quality of written assignments and engaging library resources for a term length assignment on construction material of interest.
- Incorporating more field trips to concrete, quarry, commercial and state testing facilities, etc... v. Construction Materials laboratory assignments (in part due limited availability of graduate assistants).
- Revising sequence of presentation beginning with concrete to afford time for a semester end concrete Frisbee competition.
- Continue efforts to expand the course scope to capture timber, in addition to current topics of concrete, metals, soils and masonry - to provide students with some background on each.
- Find a better text. The one used this semester was an improvement from prior text - but, still wasn't ideal.

CONS 3360 - Structural Design

Instructor: Alan Atalah

| ACCE SLO | SLO 19 |
|----------|--------|
| Rating | 4 |
| Score | High |

Improvements/recommendations (self-reflection) for next offering of course:

- The structural mechanics is about ensuring that the building are designed and constructed safely, but creating a safety plan is not part of the scope of this course.
- By the nature of understanding what the structural engineer goes through to design a structure, they learn and appreciate their roles in an indirect way.
- Accelerate the delivery of the math review part and the first chapter to create space for the bridge competition.
- Reach out to the math department to ensure that the students are better prepared mathematically.

CONS 3380 - Steel, Concrete and Masonry Design

Instructor: Joseph Lavalette

| | |
|-----------------|---------------|
| ACCE SLO | SLO 19 |
| Rating | 4 |
| Score | High |

Improvements/recommendations (self-reflection) for next offering of course:

- A few more power point/video clips to present concepts.

CONS 4110 - Construction Safety and Health Management

Instructor: Mark Prenzlin

| | | |
|-----------------|--------------|--------------|
| ACCE SLO | SLO 1 | SLO 3 |
| Rating | 3 | 4 |
| Score | Average | High |

Improvements/recommendations (self-reflection) for next offering of course:

- I will emphasize the importance of creating written communication that is well-organized and consists of correct spelling, grammar, and punctuation.
- I will instruct students of the importance of proof-reading their written communication and making appropriate corrections before sending.

CONS 4350 - Construction Methods and Practices

Instructor: Alan Atalah

| | | | |
|-----------------|--------------|---------------|---------------|
| ACCE SLO | SLO 8 | SLO 13 | SLO 14 |
| Rating | 4 | 5 | 4 |
| Score | High | Very High | High |

Improvements/recommendations (self-reflection) for next offering of course:

- Find ways to reduce use of cell phone and computers during the class.
- Make the class more interactive.
- We have a few writing assignments, but I need to increase the writing part to improve the communication skills of the students.
- Incorporate more site planning exercises.

CONS 4420 - Construction Scheduling

Instructor: Quinn Lawrence

| | | |
|-----------------|--------------|---------------|
| ACCE SLO | SLO 5 | SLO 16 |
| Rating | 5 | 4 |
| Score | Very High | High |

Improvements/recommendations (self-reflection) for next offering of course:

- I would like to incorporate the text Bob Austin had recommended into the course as a guide to the fundamentals of scheduling.

CONS 4700 - Construction Capstone

Instructor: Robert Austin

| | |
|-----------------|--------------|
| ACCE SLO | SLO 9 |
| Rating | 3 |
| Score | Average |

Improvements/recommendations (self-reflection) for next offering of course:

- Limit enrollment to not more than 20 students. In the event that there are more than 20 graduating seniors, offer multiple sections.
- Continue efforts with other faculty members to introduce fundamental CM skills, for example concept estimates, contingencies and risk analysis.
- More closely tie the project based learning deliverables to the class lectures through interim partial submissions.
- Introduce debate topic as part of lecture discussions (e.g., bid shopping, float ownership, scheduling methods, relational contracting, management structures).
- Explore on-line testing offered by the Construction Management Association of America.

SUMMARY OF SCORE / AVERAGE PER ACCE SLO:

| ACCE SLO | SCORE / AVERAGE |
|-----------------|------------------------|
| 1 | 3.0 |
| 2 | |
| 3 | 4.0 |
| 4 | |
| 5 | 5.0 |
| 6 | |
| 7 | |
| 8 | 4.0 |
| 9 | 3.0 |
| 10 | |
| 11 | 3.0 |
| 12 | |
| 13 | 5.0 |
| 14 | 4.0 |
| 15 | 3.0 |
| 16 | 4.0 |
| 17 | |
| 18 | |
| 19 | 4.0 |
| 20 | |

APPENDIX:

ACCE - STUDENT LEARNING OUTCOMES

| |
|--|
| 1. Create written communications appropriate to the construction discipline. |
| 2. Create oral presentations appropriate to the construction discipline. |
| 3. Create a construction project safety plan. |
| 4. Create construction project cost estimates. |
| 5. Create construction project schedules. |
| 6. Analyze professional decisions based on ethical principles. |
| 7. Analyze construction documents for planning and management of construction processes. |
| 8. Analyze methods, materials, and equipment used in construction processes. |
| 9. Apply construction management skills as a member of a multidisciplinary team. |
| 10. Apply electronic-based technology to manage the construction process. |
| 11. Apply basic surveying techniques for construction layout and control. |
| 12. Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process. |
| 13. Understand construction risk management. |
| 14. Understand construction accounting and cost control. |
| 15. Understand construction quality assurance and control. |
| 16. Understand construction project control processes. |
| 17. Understand the legal implications of contract, common, and regulatory law to manage a construction project. |
| 18. Understand the basic principles of sustainable construction. |
| 19. Understand the basic principles of structural behavior. |
| 20. Understand the basic principles of mechanical, electrical and piping systems. |