SCHOOL OF THE BUILT ENVIRONMENT

DEPARTMENT OF CONSTRUCTION MANAGEMENT

'Faculty - Course Self Evaluation' Assessment Report
Fall 2020

Dated: February 16, 2021

BOWLING GREEN STATE UNIVERSITY

ASSESSMENT PARTICULARS:

No. of Surveys Distributed:	Ten (10) Surveys
No. of Surveys Returned:	Ten (10) Surveys
No. of Courses Evaluated:	Ten (10) Courses
List of Courses Evaluated:	CONS 2350 - Introduction to Construction CONS 2590 - Construction Document Reading CONS 3180 - Construction Surveying CONS 3360 - Structural Design CONS 3590 - Estimating and Cost Control CONS 4110 - Construction Safety and Health Management CONS 4420 - Construction Scheduling CONS 4590 - Construction Estimating Computer Applications CONS 4700 - Construction Capstone CONS 6430 - Advanced Estimating Bidding Strategy and Cost Control
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
Prepared By:	Dr. Arsenio Rodrigues atrodri@bgsu.edu 419-372-8018

CONS 2350 - Introduction to Construction
Instructors: Robert Austin

ACCE SLO	SLO 18
Rating	Average
Score	3

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

1. Return to non-Covid instruction, which would include move hands on exercises. Many students prefer the hands-on exercises and/or the smaller class sizes afforded in the lab sessions.
2. Once prior face-to face instruction is restored, effect measures that would ensure that the instructor or an assistant is comfortable and capable of providing hands on craft-type labor instruction. Administration may want to consider having a full- or part-time staff employee to serve in this role, as well as for other lab classes. Supplementing this would be having the flexibility for a return to site visits.
3. The shift to document reading, basic math and cost estimating in the lab sessions is consistent with the catalog description of the course and merits consideration in subsequent class offerings.
4. Reconsider using this introductory level class as a metric to measure the "sustainability" student learning objective.

CONS 2590 - Construction Document Reading
Instructor: Alan Atalah

ACCE SLO	SLO 7
Rating	Very High
Score	5

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

1. Introduce more drawings interpretation quizzes earlier in the semester
2. Make the final exam a comprehensive exam
3. Expedite the rate of delivery to have enough time to cover all units without acceleration at the end.

CONS 3180 - Construction Surveying
Instructor: Joseph Lavalette

ACCE SLO	SLO 11
Rating	Average
Score	3

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

1. Limit class size to a manageable number, based on TA's technical ability to effectively manage a group of students in a lab setting.
2. A technical course's outcome is enhanced greatly, when the instructor has face-to-face contact with the students. Schedule a classroom that is large enough to accommodate the class enrollment in a safe environment.

CONS 3360 - Structural Design
Instructor: Arsenio Rodrigues

ACCE SLO	SLO 19
Rating	High
Score	4

Improvements/recommendations (self-reflection) for next offering of course:
Continue to reinforce principles and fundamentals of basic structural constructs and their applications in design-construction. Encourage more opportunities for students to observe and document structural concepts in their immediate surroundings and on campus. Incorporate a structural design project as part of class assignments.

CONS 3590 - Estimating and Cost Control
Instructor: Scott Gross

ACCE SLO	SLO 1	SLO 4
Rating	High	Very High
Score		

Improvements/recommendations (self-reflection) for next offering of course:
No major changes to the content from this semester.
I would not recommend splitting out lab sessions to a different instructor. It is not an easy class to assign the lab to someone else.

CONS 4110 - Construction Safety and Health Management
Instructor:

ACCE SLO	SLO 1	SLO 3
Rating	High	Very High
Score	4	5

Improvements/recommendations (self-reflection) for next offering of course:
When taught by Mark Prenzlin, the students are able to obtain their OSHA 30 card if they successfully complete the course. This is a tremendous asset for the student. If the course needs to be taught by someone other than a certified safety instructor, then we should consider instituting a lab fee to cover the cost to obtain the OSHA 30 card via online platform. This requires more work on the students though. The online certification varies in cost, but is approximately $150 per student.

CONS 4420 - Construction Scheduling
Instructor: Alan Atalah

ACCE SLO	SLO 5	SLO 16
Rating	Very High	Very Low
Score	5	1

Improvements/recommendations (self-reflection) for next offering of course:
Allocate more time and create a quiz for updating the schedule.
Allocate more time and create a quiz for the scheduling and management of resources, but it will be hard to achieve because updating the schedule also needs more time in the semester.

CONS 4590 - Construction Estimating Computer Applications
Instructor: Scott Gross

ACCE SLO	SLO 10
Rating	Very High
Score	5

Improvements/recommendations (self-reflection) for next offering of course:
I need to dedicate a little more class time to reviewing and using BlueBeam. I would likely dedicate two additional class periods to Bluebeam, which would include one assignment.

CONS 4700 - Construction Capstone
Instructor: Brian Swope

ACCE SLO	SLO 2	SLO 9
Rating	High	High
Score	4	4

Improvements/recommendations (self-reflection) for next offering of course:
1. The course should be in-person instruction as compared to either hybrid or online. The latter two delivery methods stifle the class interaction that is vital to bring across the course material.
2. I would encourage switching back to the AIC examination in lieu of the CMIT. Although, I believe CMIT has broader construction industry awareness, the AIC offers a more rigorous curriculum and is a better test of what students have learned during their four years.

CONS 6430 - Advanced Estimating Bidding Strategy and Cost Control
Instructor: Alan Atalah

SLO	Apply quantitative and qualitative approaches to prepare a bid for a construction project using logical deductive reasoning techniques	Demonstrate an understanding of the bidding strategies behind the process
Rating	High	Very High
Score	4	5

Improvements/recommendations (self-reflection) for next offering of course:
Make the students start working on the project earlier in the semester
Carve time for how to create the budget from the estimate; if I cannot carve time, have the students watch my video and work it out.
Carve time for using Excel, HCSS, or/and Timberline; if I cannot carve time, have the students watch my video and work it out.

SUMMARY OF SCORE / AVERAGE PER ACCE SLO:

ACCE SLO	AVERAGE
1	4.0
2	4.0
3	5.0
4	5.0
5	5.0
7	5.0
9	4.0
10	5.0
11	3.0
16	1.0
18	3.0
19	4.0

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.
