SCHOOL OF THE BUILT ENVIRONMENT

DEPARTMENT OF CONSTRUCTION MANAGEMENT

'Faculty - Course Self Evaluation' Assessment Report
Spring 2021

Dated: June 3, 2021

BOWLING GREEN STATE UNIVERSITY

ASSESSMENT PARTICULARS:

No. of Surveys Distributed:	Twelve (12) Surveys
No. of Surveys Returned:	Twelve (12) Surveys
No. of Courses Evaluated:	Twelve (12) Courses
List of Courses Evaluated:	CONS 2350 - Introduction to Construction CONS 2590 - Construction Document Reading CONS 3180 - Construction Surveying CONS 3350 - Construction Materials and Testing CONS 3360 - Structural Design CONS 3370 - Mechanical, Electrical and Plumbing Systems in Buildings CONS 4350 - Construction Methods and Practices CONS 4400 - Construction Contracting CONS 4590 - Construction Estimating Computer Applications CONS 4700 - Construction Capstone CONS 6420 - Construction Management Planning and Scheduling TECH 6030 - Data Analysis and Decision Making
Assessment Criteria:	Overall level of preparation of students in the course related with ACCE student learning outcomes (SLO): - 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
Instructor: Joseph Lavalette + Lisa Schaller

ACCE SLO	SLO 18
Rating	Average
Score	3

Improvements/recommendations (self-reflection) for next offering of course:
Add a more extensive sustainability component to the course

CONS 2590 - Construction Document Reading
Instructor: Lisa Schaller

ACCE SLO	SLO 7
Rating	Very High
Score	5

Improvements/recommendations (self-reflection) for next offering of course:
Make F2F mandatory, I have noticed with the optional hybrid, that most of the students who opted for hybrid are falling behind in this course. This course utilizes hard copies of prints for reading and scaling, which is not accommodating to do via hybrid, you cannot scale effectively from a computer screen.

CONS 3180 - Construction Surveying
Instructor: Joseph Lavalette

ACCE SLO	SLO 11
Rating	3
Score	Average

Improvements/recommendations (self-reflection) for next offering of course:
- Reduce class size to a manageable no. of students allowing for more lab assignments and personalized instruction.

CONS 3350 - Construction Materials and Testing
Instructor: Robert Austin

ACCE SLO	SLO 15
Rating	Average
Score	3

Improvements/recommendations (self-reflection) for next offering of course:
1. Return to format that will allow some hands on
2. With addition of the Concrete compression test machine, introduce select basis concrete testing to lab session
3. Introduce “concrete frisbee” or similar exercises as part of concrete labs

CONS 3360 - Structural Design
Instructor: Joseph Lavalette

ACCE SLO	SLO 19
Rating	High
Score	4

Improvements/recommendations (self-reflection) for next offering of course:
Add a component to the course that exposes the students to emerging technology in the structural realm.

CONS 3370 - Mechanical, Electrical and Plumbing Systems in Buildings
Instructor: Robert Austin

ACCE SLO	SLO 20
Rating	High
Score	4

Improvements/recommendations (self-reflection) for next offering of course:
1. Continue with/enhance "Discussion" exercises using Engineering Mindset and other instruction videos
2. Increase Code compliance discussions

CONS 4350 - Construction Methods and Practices
Instructor: Alan Atalah

ACCE SLO	SLO 8
Rating	Very High
Score	5

Improvements/recommendations (self-reflection) for next offering of course:
1. Remove the SLO 13 and move it to CONS 4400.
2. Restructure the course to allow space for Procore.
3. I am entertaining the thought of having lecture recordings available to the students online and make the class as discussion, but the preliminary indicators show that the students rather not to ask questions in get a discussion in the class.
4. The CANVAS shell will be improved in the looks and will help the students follow the material easier.

CONS 4400 - Construction Contracting
Instructor: Alan Atalah

ACCE SLO	SLO 6	SLO 12	SLO 13	SLO 17
Rating	Very High	Very High	Very High	High
Score	5	5	5	4

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

1. I added the Design Build Institute of America (DBIA) Contract and Risk Management Module that I learned through the DBIA certification workshop. This is one of three modules. If SBE is serious about Design Build as common material that the students of both disciplines (CM and ARCH) need in their future, I can include the other two sections of the workshop in CONS 4350. The students who pass these two sections in my classes do not have to take them in the workshop.
2. I am entertaining the thought of having lecture recordings available to the students online and make the class as discussion, but the preliminary indicators shows that the students rather not to ask questions in get a discussion in the class.
3. The CANVAS shell will be improved in the looks and will help the students follow the material easier.

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:

The course is highly project based and highly software based. I have refined the course content carefully over the last few semesters. There are a couple of projects that I intend to find substitution projects. This reason is two-fold. First, it helps keep course projects current to the industry. Second, if a course project is not a good fit with the intended learning, then a different project should be incorporated into the class.

CONS 4700 - Construction Capstone

Instructor: Scott Gross

ACCE SLO	**SLO 2**	**SLO 9**
Rating	High	Very High
Score	4	5

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

1. The presentation format for the class is good. I need to better refine the rubric for grading students, both as individuals and as part of the group.
2. I am satisfied with the group project portion of the class. Students need to submit sections of the project ongoing throughout the semester as milestones. This helps keep the groups on task and methodical in their work on the final project. Student evaluations on their group experience found the experience to be positive and a good learning exercise.
3. I am glad that the AIC exam is back up and operational. This exam is the best outside tool for understanding students' overall learning from the program. The study guide also makes a great template for course content and lectures.

CONS 6420 - Construction Management Planning and Scheduling

Instructor: Alan Atalah

ACCE SLO	**SLO -** Demonstrate the critical skills necessary in project management and leadership (MTM-CM)
Rating	High
Score	4

Improvements/recommendations (self-reflection) for next offering of course:
I would like to speed up the delivery of the material so I can cover more advanced material, but the students of this class this semester did not have any scheduling background as Civil Engineers and Architects. They were not able to catch up due to their work and family, but that is part of serving the specific needs of the clientele.

TECH 6030 - Data Analysis and Decision Making
Instructor: Jaki Chowdhury

ACCE SLO	**SLO -** Perform data analysis and synthesis (MTM-CM)
Rating	Average
Score	3

Improvements/recommendations (self-reflection) for next offering of course:
1. Assessment: Give two midterms instead of one.
2. Provide more Technology resources
3. Shorten Lecture Videos

SUMMARY OF SCORE / AVERAGE PER ACCE SLO:

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