SCHOOL OF THE BUILT ENVIRONMENT

DEPARTMENT OF CONSTRUCTION MANAGEMENT

'Faculty - Course Self Evaluation' Assessment Report
Spring 2023

Dated: June 14, 2023

BOWLING GREEN STATE UNIVERSITY

ASSESSMENT PARTICULARS:

No. of Courses Evaluated:	Nine (9) Courses
List of Courses Evaluated:	CONS 2590 - Construction Document Reading CONS 3350 - Construction Materials and Testing CONS 3360 - Structural Design CONS 4000 - LEED and Lean Construction CONS 4110 - Construction Safety and Health Management CONS 4400 - Construction Contracting CONS 4700 - Construction Capstone TECH 6440 - Engineering Economics and Technical Strategic Management 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
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CONS 2590 - Construction Document Reading
Instructor: Joseph Lavalette

ACCE SLO	SLO 7
Rating	High
Score	4

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

1. Manageable class sizes.
2. Accommodations that allow for industry standard prints reading and take off.
3. Accommodations that allow for proper test administration.

CONS 3350 - Construction Materials and Testing
Instructor: Joseph Lavalette

ACCE SLO	SLO 15
Rating	High
Score	4

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

1. Manageable class sizes.
2. Lab accommodations that allow students to perform tests without fear of "messing up" the lab area.
3. Update lab equipment -- both in quantity and quality.
4. Classroom with reasonable testing accommodations.

CONS 3360 - Structural Design
Instructor: Joseph Lavalette

ACCE SLO	SLO 19
Rating	High
Score	4

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

1. Classroom that allows for adequate testing environment
2. Maintain a TA that has the ability and desire to mentor the students with slower learning curves
3. Consider revising syllabus to front load prerequisite review and eliminate presentation of new material.

CONS 4000 - LEED and Lean Construction
Instructor: Gerard Nadeau

ACCE SLO	SLO 18
Rating	Average
Score	3

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

1. I will frame the course less in terms of sustainable construction within a broad environmental and ecological context and more clearly in terms of sustainable building practices. Material addressing environmental science and ecology will be integrated into instruction regarding construction, and not presented as separate course modules.
2. I will have course modules for each class prepared before the semester begins, instead of creating the course on a weekly basis during the course of the semester.
3. I feel that I can do a much better job providing a simple and clear framework and goals for the course, and of creating a course geared more fully to the needs of undergraduate construction management students.
4. I do not believe that an emphasis on LEED is the best approach to teaching sustainable construction, but many of the students taking the course are looking for focused preparation for the LEED GA exam. The name for the course is catchy, but I would like it to change…Until then I will more thoroughly address Lead exam requirements while not teaching to the exam.
5. I will provide a more consistent format for course modules throughout the semester. Specifically, lectures will be followed by discussion and group exercises and case studies each week applying the lecture content.
6. Weekly pop quizzes will have points assigned to them.
7. I will structure the course to allow myself the time for prompt feedback following assignments.
8. I will continue to develop my Canvas skills to make grading and providing feedback to students more efficient and effective.
9. I will schedule office hours with CONS 5000 students throughout the semester to discuss their research projects.

<u>CONS 4110 - Construction Safety and Health Management</u>

Instructor: Mark Prenzlin

ACCE SLO	**SLO 3**
Rating	High
Score	4

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

1. I will encourage students to recognize the importance of creating written communications that are well-organized and include correct spelling, grammar, and punctuation.
2. I will continue to emphasize the importance of proof-reading written communication and making appropriate corrections prior to sending/submitting written work.
3. I will emphasize the importance of planning for safety and identifying and documenting specific procedures as they relate to safety in the Construction Project Safety Plan.

<u>CONS 4400 - Construction Contracting</u>

Instructor: Alan Atalah

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

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

1. The outcome for was slightly short of the 70% target. Three students did not do the Quiz for Chapter 4 which artificially lowered the count of students who scored over 70.

CONS 4700 - Construction Capstone

Instructor: Linda Beall

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

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

1. This term an "interrupter" was incorporated into the project for the course to emulate office conditions of Addenda and Change Orders more closely. Continue the interrupter and develop the scope to include design stages from schematic through to bidding.
2. Consider removal of the AIC CM Level 1 Examination and replace the content with an expanded design scope of the project, as well as skill-building, (see below).
3. Skill-building: students were lacking basic familiarity with estimating software, estimating resources such as R.S. Means and manual approaches to scheduling and estimating. Developing construction estimates at different levels of design and detail, including conceptual square foot cost analysis as well as assembly cost analysis in addition to a detailed line-item analysis were unfamiliar to them. Additional effort will be required for estimating in the course.

TECH 6030 - Data Analysis and Decision Making

Instructor: Jaki Chowdhury

ACCE SLO	Effectively communicate through technical writing and oral communication skills	Justify investment decisions through advanced engineering economic analytical skills	Perform data analysis and synthesis	Demonstrate the critical skills necessary in project management and leadership	Integrate core competencies to solve real world problems in their domain through research
Rating	Average	Average	Low	Average	Low
Score	3	3	2	3	2

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

1. Add new assessments.

TECH 6440 - Engineering Economics and Technical Strategic Management

Instructor: Alan Atalah

ACCE SLO	Effectively communicate through technical writing and oral communication skills	Justify investment decisions through advanced engineering economic analytical skills	Perform data analysis and synthesis	Demonstrate the critical skills necessary in project	Integrate core competencies to solve real world problems

				management and leadership	in their domain through research
Rating	Average	Average	Average	Average	Average
Score	3	3	3	3	3

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

1. I typically start the course with Economic Cycle, Entrepreneurship, and Risk management which does not involve a lot of mathematical calculation and using MS Excel. While I advise them to use this time in catching up on basic MS Excel before we start the Present and Annual Worth calculations. I believe some students lose the needed intensity to study and lean new concepts along with MS Excel because they think the course is easy. As a result, they did not do well in TEST 2.

SUMMARY OF SCORE / AVERAGE PER ACCE SLO:

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