SCHOOL OF THE BUILT ENVIRONMENT

DEPARTMENT OF CONSTRUCTION MANAGEMENT

'Faculty - Course Self Evaluation' Assessment Report
Fall 2022

Dated: March 24, 2023

BOWLING GREEN STATE UNIVERSITY

ASSESSMENT PARTICULARS:

No. of Surveys Distributed: Eleven (11)

No. of Surveys Returned: Eleven (11)

No. of Courses Evaluated: Eleven (11)

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 4700 - Construction Capstone
CONS 6420 - Construction Management Planning and Scheduling
CONS 6430 - Advanced Estimating, Bidding Strategy, and Cost Control
TECH 6200 - Project Management in Applied Engineering

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

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CONS 2350 - Introduction to Construction
Instructors: Lisa Schaller

ACCE SLO	SLO 18
Rating	High
Score	4

Improvements/recommendations (self-reflection) for next offering of course:
- None Provided

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. Obtain area that would allow students to view standard scale drawings similar to real world conditions. Students are so crammed in they must use scaled down documents.
2. Testing areas that allow students to use required tools in an efficient manner.

CONS 3180 - Construction Surveying
Instructor: Joseph Lavalette

ACCE SLO	SLO 11
Rating	High
Score	4

Improvements/recommendations (self-reflection) for next offering of course:
1. Change Lab format. With 30 students – it is almost impossible to give each student the time they deserve using the equipment. Two TAs and myself have a very hard time giving the students individual attention.
2. Request TAs that are academically equipped to hold study sessions for students that are falling behind.

CONS 3360 - Structural Design
Instructor: Linda Beall

ACCE SLO	SLO 19
Rating	Very High
Score	5

Improvements/recommendations (self-reflection) for next offering of course:
1. Continue Peer Assisted Learning exercises, with assigned groups based upon quiz scores.
2. Develop additional digital models to illustrate both systemic behavior, (especially load paths), and structural connections.

CONS 3590 - Estimating and Cost Control
Instructor: Lisa Schaller

ACCE SLO	SLO 1	SLO 4
Rating	High	High
Score	4	4

Improvements/recommendations (self-reflection) for next offering of course:
- None Provided

CONS 4110 - Construction Safety and Health Management
Instructor:

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.

CONS 4420 - Construction Scheduling
Instructor: Quinn Lawrence

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

Improvements/recommendations (self-reflection) for next offering of course:
1. Implement the use of project plans to create schedules more regularly.
2. Implement more project controls including updates based on Daily Field Reports and Pay Estimates.
3. Do a better job explaining the importance of schedule updates and their accuracy as it has a great impact on the project.

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. Develop a strategic design interrupter: a change in detail, schedule or specification section to allow the students to respond to a design or construction process change that would simulate a field condition.
2. Student presentations at the thirds points of the semester to improve the use of technical and non-vernacular language and phrasing.
3. Greater emphasis upon conceptual scheduling approaches using manual techniques. Scheduling course does not seem to emphasize concepts but rather the use of software to craft a schedule.

CONS 6420 - Construction Management Planning and Scheduling

Instructor: Alan Atalah

SLO	**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	Very High	Very High	Very High
Score	5	5	5

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

1. Create a course concept map and another one with every unit when it is applicable.
2. Reduce the emphasis on covering all planned chapters and allow quality time to cement the concepts in the students' mind.
3. Try to reduce the students' anxiety about their grade throughout the semester.

CONS 6430 - Advanced Estimating, Bidding Strategy, and Cost Control

Instructor: Alan Atalah

SLO	**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	Very High	Very High	Very High
Score	5	5	5

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

1. Create a course concept map and another one with every unit when it is applicable.
2. Reduce the emphasis on covering all planned chapters and allow quality time to cement the concepts in the students' mind.
3. Try to reduce the students' anxiety about their grade throughout the semester.

TECH 6200 - Project Management in Applied Engineering

Instructor: Alan Atalah

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	Very Low	Very Low	Very High	Very High	High
Score	1	1	5	5	4

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

1. Create a course concept map and another one with every unit when it is applicable.
2. Reduce the emphasis on covering all planned chapters and allow quality time to cement the concepts in the students' mind.
3. Reduce the dependence on mathematical/algebraic knowledge to the maximum extent possible. Some students have very poor algebraic knowledge. Use Excel as much as possible as a replacement for the algebraic manipulation.
4. Try to reduce the students' anxiety about their grade throughout the semester.

SUMMARY OF SCORE / AVERAGE PER ACCE SLO:

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