Assessment: Working Unit Four Column

Program - Building Construction Management SACSCOCs (B)

Program Mission Statement: The mission of the Department of Construction Management is to educate and develop construction professionals with a global perspective through a rigorous, relevant, and accredited degree program offered by faculty devoted to excellence in teaching, scholarly activities, service projects, community involvement and ethical standards. Students will experience an active working relationship with local industry and develop a global perspective through cooperative efforts and exchange programs with international universities and colleges in the framework of a culture of ethics, which are vital in the development of successful construction professionals and provides distinct characteristics for our graduate's pursuit of career development and professional opportunities.

Within a few years of graduation, the Department of Construction Management expects its alumni will be in professional situations in which they can:

1. Achieve prominent positions in the industry, continue education in related post-grad degrees and latest software technology trends, or successfully maintain entrepreneur endeavors
2. Maintain active involvement in the surrounding community and UNF Alumni affairs
3. Consistently demonstrate ethical standards
4. Consistently consider safety as a prime importance factor in work decisions
5. Continually seek quality improvement

Assessment Approaches: Student Learning Outcomes are categorized based on attainment of:
(1) An ability to identify and solve applied science problems.
(2) An ability to communicate effectively.
(3) An understanding of professional and ethical responsibilities.
(4) An ability to use the techniques, skills, and modern scientific tools necessary for professional practice.

As part of the continuous assessment and improvement program, a multiplicity of formal and informal methods and techniques are employed to generate feedback and recommendations on the UNF CM academic program. The methods and techniques used in the CM Academic Quality Assessment are shown listed below.

Direct Outcome Assessment:
Every student outcome of every class is measured using a direct assessment tool and a Likert score for each class is determined. These assessments are reviewed in a faculty meeting to implement necessary changes for continuous improvement. Several core courses BCN 2405 Introduction to structure, BCN 4709 Construction Management Capstone, and BCN 4931 Construction Management Seminar are used in the direct outcome assessment.

Internship Evaluations:
Each student must participate in an Internship (BCN 4944) as part of his/her academic program. The employer is asked to evaluate the student's job performance. The evaluation parameters include the Expected Educational Outcomes for the CM program. In a sense, the Department has a direct measure by industry on how well trained the students are in terms of the academic program's desired Expected Educational Outcomes. BCN 4944 Internship is used in the indirect outcome assessment.

Graduating Senior Survey:
Feedback is solicited from graduating seniors each semester on various aspects of the academic program such as advising, curriculum, student clubs, and facilities.

Industry Survey:
Professional members of the regional construction companies are solicited for their feedback and views on the academic program. This is typically done twice a year.

Informal Industry Feedback:
The Dean has implemented an industry Leadership Council for the College. Members of this committee include a number of senior executives from the regional construction companies. Feedback from the Dean is shared with the CM faculty.

Assessment Calendar: Academic Year (Summer-Fall-Spring)
Name of Person(s) Preparing Report: Aiyin Jiang
Notes on Assessment Process: CM starts to use SACSCOCs unit in 2017 Spring to report instead of ABET (B) unit.

Student Learning Outcomes	*Measures*	*Results and Evaluation*	*Actions & Follow-Up*
Problem solving - An ability to identify and solve applied science problems. **Outcome Status:** Active **Assessment Year :** 2016, 2018, 2020 **ALC Outcome Category:** Critical Thinking Skills	**Field Placement Supervisor Rating -** BCN 4944-Construction Management Internship: An ability to solve applied science problems is assessed indirectly in the course. Every student has to take internship in CM. The supervisor of an intern student will evaluate the performance of the student according to a standard form provided by CM program. **Desired Result:** At least 80% of the students receive a rating of Satisfactory or above or 3.5/5. **Type of Measure:** Indirect **Related Documents:** Supervisor Evaluation.pdf	**Reporting Period:** 2019 **Result Type:** Desired Result Met In this evaluation cycle, the course are offered in Summer 2018, Fall 2018, and Spring 2019. There are 44, 25, and 26 students taking the course in Summer 2018, Fall 2018, and Spring 2019 respectively. In Summer 2018, 14/44 students get 5/5, 17/44 students get 4/5, 9/44 students gets 3/5, 4/44 student gets 2/5. The average score of the class is 3.93/5. 90% of the students achieve 3.5/5 or above. In Fall 2018, 6/25 students get 5/5, 13/25 students get 4/5, 5/25 students get 3/5. The average score of the class is 3.88/5. 100% of the students achieve 3.5/5 or above. In Spring 2019, 12/26 students get 5/5, 8/26 students get 4/5, 5/26 students get 3/5, 1/26 student gets 2/5. The average score of the class is 4.19/5. 96% of the students achieve 3.5/5 or above. All three classes meet the desired result. The construction companies are satisfied with the students' ability of identifying and solving construction problems. (08/15/2019)	**Action & Follow-Up:** Comparison with results of the previous evaluation cycle, it indicates that the outcome continues to be attained and no action regarding assessment methods and instruments. The measure and and instruction methods are being recommended at this time. (08/15/2019) **Action & Follow-Up:** Comparison with results of the previous evaluation cycle, it indicates that the outcome continues to be attained and no action regarding assessment methods and instruments. The measure and and instruction methods are being recommended at this time. (05/01/2017)

Student Learning Outcomes	Measures	Results and Evaluation	Actions & Follow-Up
	Test (Locally Developed) - BCN 2405-Introduction to Structures: An ability to solve applied science problems is assessed directly in the course. The student will upon successful completion of this course have a basic understanding of the nature of forces governing the design and behavior of materials and elements common to building construction. Students work individually to solve structure problems. **Desired Result:** At least 70% of the students receive a rating of Satisfactory or above or 3.5/5. **Type of Measure:** Direct	**Was this result obtained in a CBTL course?:** No **Reporting Period:** 2019 **Result Type:** Desired Result Met In this evaluation cycle, the course are offered in Fall 2018 and Spring 2019. There are 37 and 30 students taking the course in Fall 2018 and Spring 2019 respectively. In Fall 2018, 8/37 students get 5/5, 6/37 students get 4/5, 9/37 students get 3/5, 8/37 students get 2/5, and 10/37 student gets 1/5. The average score of the class is 3.05/5. 62% of the students achieve 3.5/5 or above. In Spring 2019, 11/30 students get 5/5, 6/30 students get 4/5, 5/30 students get 3/5, 5/30 students get 2/5, 3/30 students get 1/5. The average score of the class is 3.57/5. 73% of the students achieve 3.5/5 or above. Both classes meet the desired result. Comparing the two classes, the student performance is improved in Spring 2019. The teaching strategy of the professors, like more homework problems, problem solving workshop work well during this evaluation cycle. (08/15/2019) **Was this result obtained in a CBTL course?:** No	**Action & Follow-Up:** Comparison with results of previous years indicates that the outcome continues to be attained and no action regarding assessment methods and instruments. The measure and and instruction methods are being recommended at this time (08/15/2019)
Communication - An ability to communicate effectively. **Outcome Status:** Active **Assessment Year :** 2016, 2018, 2020 **ALC Outcome Category:** Communication Skills	**Field Placement Supervisor Rating -** BCN 4944-Construction Management Internship: An ability to communicate effectively is assessed indirectly in the course. Every student has to take internship in CM. The supervisor of an intern student will evaluate the performance of the student according to a standard form provided by CM program. **Desired Result:** At least 80% of the students receive a rating of Satisfactory or above or 3.5/5. **Type of Measure:** Indirect **Related Documents:**	**Reporting Period:** 2019 **Result Type:** Desired Result Met In this evaluation cycle, the course are offered in Summer 2018, Fall 2018, and Spring 2019. There are 44, 25, and 26 students taking the course in Summer 2018, Fall 2018, and Spring 2019 respectively. In Summer 2018, 16/44 students get 5/5, 17/44 students get 4/5, 8/44 students gets 3/5, 3/44 student gets 2/5. The average score of the class is 4.04/5. 93% of the students achieve 3.5/5 or above. In Fall 2018, 8/24 students get 5/5, 10/24 students get 4/5, 5/24 students get 3/5, 1/24 student gets 2/5, one student is not assessed. The average score of the class is 3.88/5. 96% of the students achieve 3.5/5 or above.	**Action & Follow-Up:** Comparison with results of the previous evaluation cycle, it indicates that the outcome continues to be attained and no action regarding assessment methods and instruments. The measure and and instruction methods are being recommended at this time (08/15/2019)

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	Supervisor Evaluation.pdf	In Spring 2019, 16/26 students get 5/5, 6/26 students get 4/5, 3/26 students get 3/5, 1/26 student gets 2/5. The average score of the class is 4.42/5. 96% of the students achieve 3.5/5 or above. All three classes meet the desired result. The construction companies are satisfied with the students' ability to communicate effectively. (08/15/2019) **Was this result obtained in a CBTL course?:** No	
	Course Assignment Rubric Rating - BCN 4931 Construction Management Seminar: An ability to communicate effectively is assessed directly in the course. Students are required to create a presentation and write essays regarding the new technology, trends, etc of construction industry. **Desired Result:** At least 80% of the students receive a rating of Satisfactory or above or 3.5/5. **Type of Measure:** Direct	**Reporting Period:** 2019 **Result Type:** Desired Result Met In this evaluation cycle, the course are offered in Fall 2018 and Spring 2019. There are 38 and 71 students taking the course in Fall 2017 and Spring 2018 respectively. In Fall 2018, 34/38 students get 5/5, 3/38 students get 4/5, 1/38 students get 1/5. The average score of the class is 4.81/5. 97% of the students achieve 3.5/5 or above. In Spring 2019, 57/71 students get 5/5, 8/71 students get 4/5, 1/71 student gets 3/5, 1/71 student gets 2/5, 5/71 students get 1/5. The average score of the class is 4.6/5. 93% of the students achieve 3.5/5 or above. All two classes meet the desired result. The teaching strategies of the professors, like presentation, writing assignments, has worked well during this evaluation cycle. (08/15/2019) **Was this result obtained in a CBTL course?:** No	**Action & Follow-Up:** Comparison with the results of the previous evaluation, it indicates that the outcome continues to be attained and no action regarding assessment methods and instruments. The measure and and instruction methods are being recommended at this time. (08/15/2019)
Ethics - An understanding of professional and ethical responsibilities **Outcome Status:** Active **Assessment Year :** 2016, 2018, 2020 **ALC Outcome Category:** Other Skills (Opt.)	**Course Assignment Rubric Rating -** BCN 4931 Construction Management Seminar: An understanding of professional and ethical responsibilities is assessed directly in the course. Students are required to participate in discussion and write essay regarding ethical	**Reporting Period:** 2019 **Result Type:** Desired Result Met In this evaluation cycle, the course are offered in Fall 2018 and Spring 2019. There are 38 and 71 students taking the course in Fall 2017 and Spring 2018 respectively. In Fall 2018, 30/38 students get 5/5, 1/38 students get 4/5, 2/38 students get 3/5, 4/38 students get 2/5, 1/38 student	**Action & Follow-Up:** Comparison with results of the previous cycle, it indicates that the outcome continues to be attained and no action regarding assessment methods and instruments. The measure and instruction methods are being recommended at this

Student Learning Outcomes	Measures	Results and Evaluation	Actions & Follow-Up
	responsibilities. (Active) **Desired Result:** At least 80% of the students receive a rating of Satisfactory or above or 3.5/5. **Type of Measure:** Direct	gets 1/5. The average score of the class is 4.45/5. 87% of the students achieve 3.5/5 or above. In Spring 2019, 54/71 students get 5/5, 12/71 students get 4/5, 4/71 student gets 3/5, 1/71 student gets 2/5, 1/71 students get 1/5. The average score of the class is 4.69/5. 97% of the students achieve 3.5/5 or above. All two classes meet the desired result. The instruction and guest speech on upholding professional ethic standards direct students practicing professionally. (08/15/2019) **Was this result obtained in a CBTL course?:** No	time (08/15/2019)
	Field Placement Supervisor Rating - BCN 4944-Construction Management Internship: An understanding of professional and ethical responsibilities is assessed indirectly in the course. Every student has to take internship in CM. The supervisor of an intern student will evaluate the performance of the student according to a standard form provided by CM program. **Desired Result:** At least 80% of the students receive a rating of Satisfactory or above or 3.5/5. **Type of Measure:** Indirect **Related Documents:** Supervisor Evaluation.pdf	**Reporting Period:** 2019 **Result Type:** Desired Result Met In this evaluation cycle, the course are offered in Summer 2018, Fall 2018, and Spring 2019. There are 44, 25, and 26 students taking the course in Summer 2018, Fall 2018, and Spring 2019 respectively. In Summer 2018, 30/44 students get 5/5, 7/44 students get 4/5, 7/44 students gets 3/5. The average score of the class is 4.52/5. 100% of the students achieve 3.5/5 or above. In Fall 2018, 12/24 students get 5/5, 8/24 students get 4/5, 3/24 students get 3/5, 1/24 student gets 2/5, one student is not assessed. The average score of the class is 4.29/5. 92% of the students achieve 3.5/5 or above. In Spring 2019, 22/25 students get 5/5, 2/25 students get 4/5, 2/25 students get 3/5, one student is not assessed. The average score of the class is 4.65/5. 100% of the students achieve 3.5/5 or above. All three classes meet the desired result. The instruction and guest speech on upholding professional ethic standards direct students practicing professionally. (08/15/2019) **Was this result obtained in a CBTL course?:** No	**Action & Follow-Up:** Comparison with results of the previous cycle, it indicates that the outcome continues to be attained and no action regarding assessment methods and instruments. The measure and and instruction methods are being recommended at this time (08/15/2019)
Entry to industry practice - An ability	**Capstone Project Rubric Rating -**	**Reporting Period:** 2019	**Action & Follow-Up:** Comparison

Student Learning Outcomes	Measures	Results and Evaluation	Actions & Follow-Up
to use the techniques, skills, and modern scientific tools necessary for professional practice. **Outcome Status:** Active **Assessment Year :** 2016, 2018, 2020 **ALC Outcome Category:** Content/Discipline-Specific Knowledge/Skills	BCN 4709-Construction Management Capstone: An ability to use the techniques, skills, and modern scientific tools necessary for professional practice is assessed directly in the course. Students are given real construction project documents. They conduct site visit, make construction cost estimating, planning and scheduling, safety and quality control plan, and risk analysis and management. The final project submission and presentation are evaluated by the faculty and invited industry professionals. **Desired Result:** At least 80% of the students receive a rating of Satisfactory or above or 3.5/5. **Type of Measure:** Direct **Field Placement Supervisor Rating -** BCN 4944-Construction Management Internship: An ability to use the techniques, skills, and modern scientific tools necessary for professional practice is assessed indirectly in the course. Every student has to take internship in CM. The supervisor of an intern student will evaluate the performance of the student according to a standard form provided by CM program. **Desired Result:** At least 80% of the students receive a rating of Satisfactory or above or 3.5/5. **Type of Measure:** Indirect	**Result Type:** Desired Result Met In this evaluation cycle, the course are offered in Fall 2018, and Spring 2019. There are 35 and 16 students taking the course in Fall 2017 and Spring 2018 respectively. In Fall 2018, 26/35 students get 5/5, 8/35 students get 4/5, 1/35 student gets 1/5. The average score of the class is 4.66/5. 97% of the students achieve 3.5/5 or above. In Spring 2019, 13/16 students get 5/5, 3/16 students get 4/5. The average score of the class is 4.8/5. 100% of the students achieve 3.5/5 or above. All two classes meet the desired result. The industrial professionals gave the students high evaluation and confidence in entering into the construction industry. (08/15/2019) **Was this result obtained in a CBTL course?:** No **Reporting Period:** 2019 **Result Type:** Desired Result Met In this evaluation cycle, the course are offered in Summer 2018, Fall 2018, and Spring 2019. There are 44, 25, and 26 students taking the course in Summer 2018, Fall 2018, and Spring 2019 respectively. In Summer 2018, 22/44 students get 5/5, 15/44 students get 4/5, 6/44 students gets 3/5, 1/44 student gets 2/5. The average score of the class is 4.31/5. 98% of the students achieve 3.5/5 or above. In Fall 2018, 11/25 students get 5/5, 11/25 students get 4/5, 3/25 students get 3/5. The average score of the class is 4.32/5. 100% of the students achieve 3.5/5 or above. In Spring 2019, 16/26 students get 5/5, 8/26 students get 4/5, 2/26 students get 2/5. The average score of the class is 4.46/5. 92% of the students achieve 3.5/5 or above. All three classes meet the desired result. The construction	with the results of the previous evaluation cycle it indicates that the outcome continues to be attained and no action regarding assessment methods and instruments. The measure and and instruction methods are being recommended at this time. (08/15/2019) **Action & Follow-Up:** Comparison with the results of previous years it indicates that the outcome continues to be attained and no action regarding assessment methods and instruments. The measure and instruction methods are being recommended at this time (08/15/2019)

Student Learning Outcomes	Measures	Results and Evaluation	Actions & Follow-Up
		companies are satisfied with the students' successful entry into the construction industry. (08/15/2019) **Was this result obtained in a CBTL course?:** No	