



Degree Program Assessment - CMGT - BSCM for 2019

Degree code: CMGT

Degree type: BSCM

Degree title: Construction Management

Assessment year: 2019-2020

Matrix (Enter 3 or 4 rows):

Student Learning Outcome #1-5:

Of the first 5 ACCE Student Learning Outcomes, all 5 outcomes were assessed this year (full 3-year rotation schedule of all outcomes measured per year available in notes field at end of form):

1. Create written communications
2. Create oral presentations appropriate to the construction disciplines.
3. Create construction project safety plan.
4. Create construction project cost estimates.
5. Create construction project schedule

Measure(s):

Student Learning Outcome 1 as measured in CONS 4030 Construction Safety

Course Learning Outcome aligned with ACCE Student Learning Outcome 1:

- A. Produce a safety handout & safety outline for an assigned topic

Student Learning Outcome 2 as measured in CONS 4047/4048 Advanced Construction Projects

Course Learning Outcome aligned with ACCE Student Learning Outcome 2:

- F. Make a team presentation

Student Learning Outcome 2 as measured in CONS 4030 Construction Safety

Course Learning Outcome aligned with ACCE Student Learning Outcome 2:

- B. Make an effective presentation on the assigned topic

Student Learning Outcome 3 as measured in CONS 4030 Construction Safety

Course Learning Outcome aligned with ACCE Student Learning Outcome 3:

- F. Write a research paper on an assigned safety plan topic for a specific trade

Student Learning Outcome 4 as measured in CONS 3018/3019 Construction Quantity Estimating

Course Learning Outcomes aligned with ACCE Student Learning Outcome 4:

- A. Search the bid documents for procedures & costs
- C. Identify the trades and calculate productivity rate, total workhours, total days and labor, materials and equipment unit costs and total costs
- D. Evaluate the soils report and perform quantity takeoff for the excavation, concrete and roofing
- E. Calculate the project overhead. Selected subs and completed the Condensed Estimate Summary form
- F. Calculate the percentage overhead items and bond premium

Measure(s):

Student Learning Outcome 6 as measured in CONS 3018/3019 Construction Quantity Estimating

Course Learning Outcome aligned with ACCE Student Learning Outcome 6:

B. Analyze bidding ethics situations

Student Learning Outcome 7 as measured in CONS 4047/4048 Advanced Construction Projects

Course Learning Outcome aligned with ACCE Student Learning Outcome 7:

C. Identify the steps of the Engineering, Procurement and Construction (EPC) process

Student Learning Outcome 8 as measured in CONS 1020/1021 Materials and Testing

Course Learning Outcome aligned with ACCE Student Learning Outcome 8

A. Describe the various types and qualities of aggregates, including sampling techniques, gradation, unit weight,

specific gravity, compliance with specifications & standard lab testing methods

Student Learning Outcome 9 as measured in CONS 4047/4048 Advanced Construction Projects

Course Learning Outcome aligned with ACCE Student Learning Outcome 9

D. Each team will perform the functions necessary to complete a construction project from a digital set of plans

Student Learning Outcome 10 as measured in CONS 4047/4048 Advanced Construction Projects

Course Learning Outcomes aligned with ACCE Student Learning Outcome 10

A. Each individual will perform the BIM software functions with the ability to manipulate different 3D models

B. Identify specific information in both the 2D and 3D formats.

Student Learning Outcome 10 as measured in CONS 4005/4006 Construction Scheduling

Course Learning Outcomes aligned with ACCE Student Learning Outcome 10

F. Create a plan and schedule a complete construction project and publish the project construction

G. Create a schedule, resource allocation, and cost allocation using a construction scheduling software program

Target(s):

For each measure embedded in courses, the target for student performance is that 70% of the students will attain a 70% or higher score on the evaluation of the assignment.

Does this degree program have an online version?:

No

Was this target met?:

Mixed Results

Results - Explain target met answer:

Outcome 6:

CONS 3018/3019

CLO B, SLO 6 - 93% of the students achieved a 70% or higher grade and exceeds the target

Outcome 7:

CONS 4047/4048

CLO C, SLO 7 – 85% of the students achieved a 70% or higher grade and exceeded the target

Outcome 8:

CONS 1020/1021

Measure A, Learning Outcome 8 – 25% of students (or greater) achieved, 70% or greater on the direct measure and 70% of the students (or greater) achieved a 70% or greater on the indirect measure.

Outcome 9:

CONS 4047/4048,

CLO D, SLO 9 – 70% of the students achieved a 70% or higher grade and that exceeds the target

Outcome 10:

CONS 4047/4048

CLO A, SLO 10 – 100% of the students achieved a 70% or higher grade and that exceeds the target

CLO B, SLO 10 - 90% of the students achieved a 70% or higher grade and exceeds the target

CONS 4005/4006

CLO F, SLO 10-92% of the students achieved a 70% or higher grade and that exceeds the target

CLO G, SLO 10-92% of the students achieved a 70% or higher grade and that exceeds the target

Actions to Seek Improvement or Maintain Success:

All targets were met with the exception of one assignment in CONS 1020/1021. In this course, the students were asked to study the physical makeup and uses of the major types of materials used in the construction industry. They were taught certain standards used to qualify these materials as acceptable for use in construction projects. Exam No.1 was the only Direct or Indirect Measure the produced a grade below 70%. Special review and redirected emphasis will be placed on study guidance for this section of this course. Additionally, the syllabus for this class was updated to reflect the University schedule and other beneficiary revisions. This course will now have open book, open notes types of test. All the Examinations for this course has been converted to multiple choice questions. This should provide quicker feedback to the student. A separate math Study Guide has been developed for use in this course with its intended value planned to emanate into all the Construction Management curriculum.

In the other courses with embedded assessments, faculty continue to use the assessment results to determine ways to revise and update curriculum to ensure students

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syllabus

CLO D, SLO 13 - 98% of the students achieved an average score of 88% that exceeds the target of 70%; no students scored between 70% and 88%.

CLO E, SLO 13 - 98% of the students achieved an average score of 88% that exceeds the target of 70%; no students scored between 70% and 88%.

Outcome 15:

CONS 1020/1021

Measure B, Learning Outcome 15 – 70% of students (or greater) achieved, 70% or greater on the direct measure and 70% or greater on the indirect measure.

Measure C, Learning Outcome 15 – 70% of students (or greater) achieved, 70% or greater on the direct measure and 70% or greater on the indirect measure.

Measure D, Learning Outcome 15 – 70% of students (or greater) achieved, 70% or greater on the direct measure and 70% or greater on the indirect measure.

Measure E, Learning Outcome 15 – 70% of students (or greater) achieved, 70% or greater on the direct measure and 70% or greater on the indirect measure.

Measure F, Learning Outcome 15 – 70% of students (or greater) achieved, 70% or greater on the direct measure and 70% or greater on the indirect measure.

Actions to Seek Improvement or Maintain Success:

All targets were met, but faculty continue to use assessments to determine ways to revise and update curriculum to ensure students continue to meet or exceed expectations on the other course learning outcomes. In CONS 4030, faculty rewrote most of the assignments and all of the tests into multiple choice

Measure G, Learning Outcome 18 –

CONS 2026.2027 Mechanical, Electrical Plumbing Plan Reading (ACCE SLO 20)

CONS 2030/2031 Soils & Test (ACCE SLOs 15,19)