Student Learning outcomes (SLOs) were first developed within the construction department. The Program Coordinator and the department faculty developed the SLOs for each course. SLOs are revised accordingly to meet changing industry demands. ACCE program outcomes were implemented Fall 2017.

ACCE requires 13 Student Learning Outcomes (SLO). These SLOs must be met through a Direct Measurement which shows the learning level of students. This measurement is performed by course examination, course projects, and homework.

- Exams and Homework measure the student abilities to answer specific questions regarding the specific subject. Instructor evaluates students by exams grades for the entire course.

- Term projects measures the capabilities of student to demonstrate his/her comprehensive knowledge and the ability in problem solving.

*The Construction and Building Science goal is, that 75% of our students make 70% or better*

In each of the 13 SLOs. All these SLOs reflect Fall 2017 through Fall 2018.

**SLO #1: Demonstrate effective communication, both orally and in writing.**

Related courses:  CMT 161 - Introduction to Sustainable Construction

90.70% of students made 70% or better.

CMT 205 – Construction Management

100% of students made 70% or better.

Outcome: No adjustments are necessary for this SLO.  
Justifications: This goal has been met.

**SLO #2: Demonstrate the ability to estimate quantities and costs for the bidding process in a construction project.**

Related courses:  CMT 206S – Construction Estimating

100% of students made 70% or better.

CMT 120 – Construction Problem Solving

86.5% of students made 70% or better.

Outcome: No adjustments are necessary for this SLO.  
Justifications: This goal has been met.
SLO #3:  Demonstrate the ability to schedule a basic construction project.

Related course:  CMT 217 – Software Applications in Construction

84.6% of students made 70% or better.

Outcome:  No adjustments are necessary for this SLO.

Justifications:  This goal has been met.

SLO #4:  Demonstrate the ability to use current technology related to the construction process.

Related courses:  AET 191 – Basic Building Information Modeling

84.8% of students made 70% or better.

CMT 217 – Software Applications in Construction

100% of students made 70% or better.

Outcome:  No adjustments are necessary for this SLO.

Justifications:  This goal has been met.

SLO #5:  Interpret construction documents (contracts, specifications, and drawings) used in managing a construction project.

Related courses:  CMT 102 – Construction Blueprint Reading

93.3% of students made 70% or better.

CMT 206S – Construction Estimating

100% of students made 70% or better.

Outcome:  No adjustments are necessary for this SLO.

Justifications:  This goal has been met.

SLO #6:  Apply basic principles of construction accounting.

Related courses:  CMT 217 – Software Applications in Construction

100% of students made 70% or better.

CMT 205 – Construction Management

100% of students made 70% or better.

Outcome:  No adjustments are necessary for this SLO.

Justifications:  This goal has been met.
SLO #7: Use basic surveying techniques used in building layout.
Related course: CDT 205 – Fundamentals of Survey
88.2% of students made 70% or better.
Outcome: No adjustments are necessary for this SLO.
Justifications: This goal has been met.

SLO #8: Discuss basic principles of ethics in the construction industry.
Related courses: CMT 156 – Contracts and Construction Law
83.2% of students made 70% or better.
CMT 205 – Construction Management
100% of students made 70% or better.
Outcome: No adjustments are necessary for this SLO.
Justifications: This goal has been met.

SLO #9: Identify the fundamentals of contracts, codes, and regulations that govern a construction project.
Related courses: AET 241 – Building Zoning & Codes
92.3% of students made 70% or better.
CMT 156 – Contracts and Construction Law
83.2% of students made 70% or better.
Outcome: No adjustments are necessary for this SLO.
Justifications: This goal has been met.

SLO #10: Recognize basic construction methods, materials and equipment.
Related course: CMT 101S – Construction Material and Methods
78.05% of students made 70% or better.
Outcome: No adjustments are necessary for this SLO.
Justifications: This goal has been met.
SLO #11: Recognize basic safety hazards on a construction site and standard prevention measures.

Related course: CMT 114 – Construction OSHA Safety

100% of students made 70% or better.

Outcome: No adjustments are necessary for this SLO.

Justifications: This goal has been met.

SLO #12: Recognize the basic principles of structural design.

Related courses: CDT 225 – Mechanics and Strength of Structures
84.8% of students made 70% or better.
AET 233 – Structural Design of Buildings
88.2% of students made 70% or better.

Outcome: No adjustments are necessary for this SLO.

Justifications: This goal has been met.

SLO #13: Recognize the basic principles of mechanical, electrical and piping systems.

Related course: CMT 209 – Electrical and Mechanical Equipment in Buildings
91.7% of students made 70% or better.

Outcome: No adjustments are necessary for this SLO.

Justifications: This goal has been met.