School of Business & Justice Studies

Construction Management Program

...“Preserving the past building the future!”...

INFORMATION TO THE PUBLIC

Prepared by

Dr. David M. Dubbelde, Program Director

May 2012
(Updated 5.30.2017)
I. Objectives of the Construction Management (CM) Program at Utica College

A. Construction Management Program Mission:

The program’s mission is: “To prepare the next generation of “construction professionals” such that they make a positive contribution to the construction industry and society”.

B. Construction Management Program Operational Goals and Program-Level Student Learning Outcomes:

The program’s goals provide the specific focus/effort necessary for the program’s mission and vision to become a reality. In essence, produce a quality graduate sought by industry.

The CM program assessment utilizes eight (8) program operational goals (POGs) and twenty (20) program-level student learning outcomes (PLSLOs) – listed below. The POGs are set internally by the CM unit in collaboration with industry and the Utica College (UC) administration. The PLSLOs are adopted from ACCE Document 103, section 3.1.5, Student Learning Outcomes.

Using the college’s Annual Program Goal Report (see section V. of this document) the assessment results are documented and submitted to the college during the fall semester of each academic year. A minimum of two (2) different POGs and five (5) different PLSLO’s are assessed annually. Thus, all goals are evaluated every four (4) years, which matches a student’s prescribed matriculation through the four-year degree cycle. However, more than two (2) operational or five (5) learning outcomes may be assessed annually if warranted by the programs’ quality improvement review/assessment.

Program Operational Goals (POGs) 5-Yr

The CM program’s eight (8) five-yr. goals are taken from the program’s strategic plan.

1. Increase student enrollment

2. Maintain program curriculum alignment with the needs of industry

3. Facility improvements.

4. Maintain accreditation by the American Council for Construction Education (ACCE)

5. Promote a professional ‘can-do department culture focused on serving our customers.

6. Achieve a graduate employment placement rate of 80% within three (3) months of graduation.

7. Sustain a proactive relationship with the administration and admissions.

8. Increase industry financial support/participation in the program
Program-Level Student Learning Outcomes (PLSLOs)

These goals are from the 20 Student Learning Outcomes (SLOs) prescribed by ACCE, the program’s accrediting authority.

1. PLSLO #1: Create written communications appropriate to the construction discipline.
2. PLSLO #2: Create oral presentations appropriate to the construction discipline.
3. PLSLO #3: Create a construction project safety plan.
4. PLSLO #4: Create construction project cost estimates.
5. PLSLO #5: Create construction project schedules.
6. PLSLO #6: Analyze professional decisions based on ethical principles.
7. PLSLO #7: Analyze construction documents for planning and management of construction processes.
8. PLSLO #8: Analyze methods, materials, and equipment to construct projects.
9. PLSLO #9: Apply construction management skills as a member of a multi-disciplinary team.
10. PLSLO #10: Apply electronic-based technology to manage the construction process.
11. PLSLO #11: Apply basic surveying techniques for construction layout and control.
12. PLSLO #12: Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.
14. PLSLO #14: Understand construction accounting and cost control.
15. PLSLO #15: Understand construction quality assurance and control.
16. PLSLO #16: Understand construction project control processes.
17. PLSLO #17: Understand the legal implications of contract, common, and regulatory law to manage a construction project.
18. PLSLO #18: Understand the basic principles of sustainable construction.
19. PLSLO #19: Understand the basic principles of structural behavior.
20. PLSLO #20: Understand the basic principles of mechanical, electrical and piping systems.

II. Program Admission Requirements

There are no specific admission requirements for the Construction Management Program beyond those for admission to Utica College. Program information regarding admission is available at www.utica.edu/cm

III. Program Quality Improvement Plan (Reference ACCE Document 103, Standard IX):

The CM Program Quality Improvement Plan is available at the office of the School of Business and Justice Studies.
IV. Program Assessment Measures:

Program Level Student Learning Outcomes Assessment
Assessment of the PLSLO’s is done directly and indirectly. The metric(s) for this assessment is/are contained in the Annual Program Goal Report form. The methodology is described below.

Direct Method: Direct measures consist of tests, homework, projects, presentations, assignments, etc. Using these tools, specific questions, diagrams/drawings, spreadsheets, written work, oral presentations, are employed to assess the level of achievement regarding the specific learning outcome. These outcomes are stated in the course syllabus and are further aligned to the specific course and its content through the program’s “curriculum map”.

Indirect Method: Indirect assessment is achieved through the administration of an anonymous questionnaire. This questionnaire solicits the students’ opinion regarding their level of learning/understanding as it pertains to the specific SLO(s) being evaluated as part of the course. This questionnaire is provided to each student at the conclusion of each course.

Program Operational Goals Assessment
Assessment of the CM program’s eight (8) operational goals is accomplished through either; (a) a measurable quantitative metric or, (b) review of qualitative feedback. The operational goals, a direct extension of the program’s strategic plan, are assessed semi-annually by the program in collaboration with industry through the Industry Advisory Committee, Quality Improvement Sub-Panel.

Closing the Loop
In addition to the aforementioned assessment procedures the program incorporates the following documents to obtain feedback from students, alumni, and industry. The gathered data is evaluated annually by the program and IAC QIP sub-panel. This information serves to close the loop beyond the curriculum level that is derived from the assessment of the PLSLG/SLO’s

- Student opinionaire course/faculty evaluations
- Experiential Learning Intern Evaluation
- Capstone course evaluation and grade
- Exit interview
- Post-graduate survey
- Employer survey

Student opinionaire course/faculty evaluations
The institution at each semester’s closing administers the student course/faculty evaluations. Students enrolled in the individual courses complete the forms (on-line) and submit them to the institution. The institution tabulates the results and returns the data to the appropriate faculty member.
Experiential Learning Intern evaluation
At the completion of the Experiential Learning Component the sponsoring company’s intern supervisor completes an intern evaluation. The sponsoring company forwards the completed form to the course’s faculty of record. Presently the Experiential Learning Component is a summer term only, thus the data collected is annual.

Capstone course evaluation
The capstone course, CMG 475, taken in the final semester before graduation, is a culmination of the student’s entire academic experience. A comprehensive capstone project evaluates a student’s competence regarding knowledge and skill sets required by his or her specific field of study – estimating, scheduling, safety, administration, equipment, job costing, cash flow, and communication skills. It also assesses the student’s level of achievement regarding the institution’s general educational objectives. Construction industry professionals working with the faculty develops the project and conducts the capstone project evaluation.

Exit interview
The program director conducts the exit interview with graduating seniors. The interview contains questions about the quality of the students’ educational experience and the adequacy of this experience in terms of career preparation.

Post-graduate Survey
Program graduates are to complete this survey on their one-year and three-year anniversary after graduation. The survey consists of a rating scale and reflective questions designed to elicit from the graduate an assessment of his/her preparation for the real world provided by the construction management program.

Employer Survey
Employers assess their hires from the program regarding job performance and submit this evaluation, at the end of year one (1), year three (3), and year five (5). The program utilizes its internal resources and those of the institution’s alumni relations to maintain contact with its graduates. The use of this assessment approach allows the program to track its graduates both short and long term.

V. Information Obtained from Assessment Measures and Actions Taken as a Result of Assessment Data Collected

Please note: Regarding nomenclature, the CM Unit has adopted the ACCE term “Student Learning Outcome” (SLO) to describe student learning achievement. Whereas Utica College uses the term Student Learning Goal in the same context. Assessment results are documented and submitted to the college during the fall semester of each academic year using the college’s Annual Program Goal Report. Consequently the following report references the Utica College adopted term of Student Learning Goal.
Annual Program Goals Report

Program name: Construction Management
Completed by: David M. Dubbelde and Dimitar Todorov
Date submitted: May 2017

Definitions

**Student learning goals** are the measurable learning/knowledge expectations for all students graduating from your program which are located on your curriculum map. They are the key knowledge and skills your program graduates should possess. Please note that the CM Program employs the term Program-Level Student Learning Outcomes (PLSLO) for consistency with the American Council for Construction Education (ACCE) requirements, the CM Program’s external accrediting body.

**Operational goals** address the functioning of the program. These goals set by and for a program, usually during the 5-year program review process. Operational goals may also be set during review by an external accreditor or between program reviews.

**Strategy** refers to what your department is doing to reach the goal.

The **assessment method(s)** is the process(es) that will be used to determine whether or not the strategy has been effective in achieving the goal.

**Assessment results** are the “findings” generated by your assessment method that determine whether or not your strategy has been effective (and/or effectively implemented) in achieving (or helping achieve) the stated program goal.

**Program’s response to assessment results** is where faculty reactions to the identified assessment results are listed and described briefly.

**Resource Need Identified** is any resource (equipment, staff development, money, faculty, release time) that your assessment results indicate that you need to ask for to maintain or expand your work on this goal.

**Dean’s response to assessment results** is where the program’s school dean identifies what he/she has done, is doing, and/or will be doing about the assessment results.

The **status update** cell is the place to document steps taken to execute the strategy and/or assess the strategy’s effectiveness. Do not provide a status update with the first entry identifying a new strategy.
### Student Learning Goals: Closing the Loop 2015 – 2016 (new ACCE standards apply)

<table>
<thead>
<tr>
<th>PLSLO #2 (ACCE SLO #2): Create oral presentations appropriate to the construction discipline.</th>
<th>Strategy: Class assignments requiring the student to prepare and then present orally information prescribed by the assignment.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date Adopted</strong></td>
<td><strong>Person Responsible</strong></td>
</tr>
<tr>
<td>2015-16</td>
<td>Dubbelde, Todorov, Bushardt</td>
</tr>
<tr>
<td><strong>Related to Gen Ed (yes or no)</strong></td>
<td><strong>If yes, which General Education Goal?</strong></td>
</tr>
</tbody>
</table>
| YES | _X_Communication  
__Critical Analysis  
__Synthesis  
_X_Social Awareness  
__Quant Literacy |
| **Targeted Completion Date** | (Note any revisions to completion dates here) |
| May 2016 – assessed | May 2016 – reassessed |
| May 2017 – COMPLETE | May 2017 – COMPLETE |

**Assessment Method(s)/Metric(s)**

**Direct Evidence/Metric:**
- CMG 117: Student delivers presentation on term project. METRIC = the class average of the graded presentation = 80% or greater.
- CMG 332: Participation in the Team Presentation to a panel of industry professionals using PowerPoint or similar presentation software. METRIC = the class average of the graded presentation = 80% or greater.
- CMG 475: Individual presentation of the semester project using PowerPoint or similar presentation software. METRIC = the class average of the graded semester project = 80% or greater.

**Indirect Evidence/Metric**
- Student and/or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Assessment Results**

**Direct Assessment:**
- CMG 117: Class average of the graded presentation = 87% - Goal Met
- CMG 332: Class average of the graded presentation = 74% - Goal Not Met, Re-assessment (2016-2017) Class average = 83% - Goal Met
- CMG 475: Class average of the graded presentation = 72% - Goal Not Met

**Indirect Assessment:**
- CMG 117: Student/Industry Feedback average = 86% - Goal Met
- CMG 475: Student/Industry Feedback average = 60% - Goal Not Met, Re-assessment (2016-2017) Student/Industry Feedback Average = 87%

**Status Update:** The program will re-evaluate PLSLO #2 in CMG 332 & CMG 475 during academic year 2016 – 2017.

**Re-evaluation, Academic Cycle 2016 - 2017:**
- CMG 332: In class review regarding oral presentations implemented spring 2017. PLSLO #2 Re-assessed, Goal Met. No further action warranted at this time.
- CMG 475: In class review regarding oral presentations implemented spring 2017. PLSLO #2 Re-assessed, Goal Met. No further action warranted at this time.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**

Each course not meeting the goal will devote more class time to elicit a better student understanding of expectations and review the finer points of delivering oral presentations.
PLSLO #4 (ACCE SLO #4): Create a Construction Cost Estimate.

**Strategy:** Provide students with a set of working drawings from which they are to extract the data necessary to create an organized construction estimate regarding quantities and cost.

<table>
<thead>
<tr>
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<th>Targeted Completion Date</th>
</tr>
</thead>
</table>

**Assessment Method(s)/Metric(s)**

**Direct Evidence/Metric:**
- **CMG 331:** Student completion of estimating homework-lab assignments. METRIC = the class average of the graded assignments = 80% or greater.
- **CMG 332:** Student participation as a team member in the completion of the semester project. METRIC = the project’s written portion graded class average = 80% or greater.
- **CMG 475:** Student completion of the estimate portion of the semester project. METRIC = the class average of the graded project = 80% or greater.

**Indirect Evidence/Metric**
- Student and/or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Assessment Results**

**Direct Assessment:**
- **CMG 331:** Class Average: Labs 81%, Tests 87%; Combined = 84% - Goal Met
- **CMG 332:** Class Average of the graded semester project written portion = 82% - Goal Met
- **CMG 475:** Class Average = 72% - Goal Not Met, Re-assessment (2016-2017) Class average = 80% - Goal Met

**Indirect Assessment:**
- **CMG 331:** Student/Industry Feedback Average = 85% - Goal Met
- **CMG 332:** Student/Industry Feedback Average = 88% - Goal Met
- **CMG 475:** Student/Industry Feedback Average = 68% - Goal Not Met, Re-assessment (2016-2017) Student/Industry Feedback Average = 84% - Goal Met

**Program Response to Assessment Results**

CMG 475 results based on graduating seniors, the results for CMG 331 & 332 based on juniors (different student group). Organization of the estimate was emphasized in CMG 331 & 332. The program will monitor CMG 475 results (spring 2017); the students taking this course during the spring 2017 are the students that received this additional emphasis in CMG 331 & 332 during the 2015-2016 assessment cycle.

**Status Update:**
CMG 475: Both direct and indirect assessment results = Goal Met. Program feels the extra emphasis, re-estimate preparation, in CMG 331 and CMG 332 is instrumental in CMG 475 meeting the required metric. This results warrants no further action at this time.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**
**PLSLO #5 (ACCE SLO #5): Create a Construction Schedule.**

<table>
<thead>
<tr>
<th>Date Adopted</th>
<th>Person Responsible</th>
<th>Related to Gen Ed (yes or no)</th>
<th>If yes, which General Education Goal?</th>
<th>Targeted Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-2016</td>
<td>Dubbelde Bushardt</td>
<td>YES</td>
<td>_X_Communication</td>
<td>May 2016 – assessed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>_X_Social Awareness</td>
<td>May 2017 – reassessed</td>
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<td></td>
<td></td>
<td></td>
<td>___Quant Literacy</td>
<td>May 2017 – COMPLETE</td>
</tr>
</tbody>
</table>

**Assessment Method(s)/Metric(s)**

**Direct Evidence/Metric:**
- CMG 437: Course tests, homework assignments. METRIC = the class average of the graded homework, assigned scheduling problems, and scheduling tests = 80% or greater.
- CMG 475: Student completion of the scheduling portion of the semester project. METRIC = the class average of the graded scheduling portion of the semester project = 80% or greater.

**Indirect Evidence/Metric:**
- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Assessment Results**

**Direct Assessment:**
- CMG 437: Class Average of graded tests, assignments, homework, etc. = 85% - Goal Met
- CMG 475: Class Average of graded scheduling component of semester project = 70% - Goal Not Met, Re-assessment (2016-2017). Class average = 87% - Goal Met

**Indirect Assessment:**

**Program Response to Assessment Results:** The perceived cause for the disparity between CMG 437 & 475 is the teaching of both classes in the same semester. The department’s response: The course offering has been updated and CMG 437 is now a pre-requisite course for CMG 475.

**Status Update:**
Curriculum change implemented effective fall 2016: CMG 437 now prerequisite for CMG 475. Furthermore, CMG 437 taught fall semester, CMG 475 taught spring semester. CMG 475 assessment results for spring 2017 = Goal Met. Program feels curriculum change made fall 2016 was instrumental in CMG 475 meeting the required metric.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**
### PLSLO #11 (ACCE SLO #11): Apply basic surveying techniques for construction layout.

<table>
<thead>
<tr>
<th>Date Adopted</th>
<th>Person Responsible</th>
<th>Related to Gen Ed (yes or no)</th>
<th>If yes, which General Education Goal?</th>
<th>Targeted Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-2016</td>
<td>S. Blanchard</td>
<td>NO</td>
<td>Communication</td>
<td>May 2016 – assessed</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Critical Analysis</td>
<td>May 2016 – COMPLETE</td>
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<td></td>
<td></td>
<td></td>
<td>Synthesis</td>
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<td></td>
<td>Social Awareness</td>
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<td></td>
<td></td>
<td></td>
<td>Quant Literacy</td>
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</tbody>
</table>

#### Assessment Method(s)/Metric(s)

**Direct Evidence/Metric:**
- CMG 233: The completion of class field exercises, tests, homework, etc., consisting of surveying techniques. METRIC = the class average of the graded field exercises and or assignments that concern construction layout = 80% or greater.

**Indirect Evidence/Metric:**
- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

#### Assessment Results

**Direct Assessment:**
- CMG 233: Class Average graded field exercises, tests, homework, etc. = 89% - Goal Met.

**Indirect Assessment**
- CMG 233: Student/Industry Feedback Average = 83% - Goal Met.

#### Program Response to Assessment Results:
- Assessment results exceeded metric, goal met. The program will make no changes at this time.

#### Status Update
- PLSLO #11 re-assessment to occur during academic year 2019-2020.

### Resource Need Identified:
- Student enrollment cap for this course is 21 students (seven 3-man crews): (1) the available survey equipment can only support 7 crews; (2) seven crews is the maximum number that an instructor can effectively manage/teach at any one time. As program enrollment grows, additional sections of this course will be required, and thus the faculty/equipment necessary to support this increase.

### Dean’s Response to Assessment Results
**PLSLO #20 (ACCE SLO #20):** Understand the basic principles of mechanical, electrical, and piping systems.

**Strategy:** Assign students problems, projects, homework, etc. regarding MEP systems in the design and construction of projects.

<table>
<thead>
<tr>
<th>Date Adopted</th>
<th>Person Responsible</th>
<th>Related to Gen Ed (yes or no)</th>
<th>If yes, which General Education Goal?</th>
<th>Targeted Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-16</td>
<td>Todorov</td>
<td>YES</td>
<td>X_Communication</td>
<td>May 2016 – assessed</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>X_Critical Analysis</td>
<td>May 2016 – COMPLETE</td>
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<td></td>
<td></td>
<td></td>
<td>X_Synthesis</td>
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<td>X_Social Awareness</td>
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<td></td>
<td>X_Quant Literacy</td>
<td></td>
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</tbody>
</table>

**Assessment Method(s)/Metric(s)**

**Direct Evidence/Metric:**
- CMG 336: The completion of the semester MEP team project. METRIC = the class average of the graded semester project = 80% or greater
- CMG 417: The completion of MEP course assignments. METRIC = the class average of the graded MEP assignments = 80% or greater

**Indirect Evidence/Metric:**
- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater

**Assessment Results**

**Direct Evidence**
- CMG 336: The completion of the semester team project: The class average of the graded semester project = 90% - **Goal met**.
- CMG 417: The completion of MEP course assignments: The class average of the graded MEP assignments = 83% - **Goal met**.

**Indirect Evidence**
- CMG 336: The average of the measured response value received from the students = 86% - **Goal met**.
- CMG 417: The average of the measured response value received from the students = 95% - **Goal met**.

**Program’s Response to Assessment Results:**
- CMG 336: There will be no changes to the semester project for CMG 336 during the 2016-217 academic cycle.
- CMG 417: There will be no changes to the MEP assignments for CMG 417 during the 2016-217 academic cycle.

**Resource Need Identified:** None at this time

**Dean’s Response to Assessment Results**
- CMG 336: PLSLO#20 re-assessment to occur during academic year 2019-2020.
- CMG 417: PLSLO#20 re-assessment to occur during academic year 2019-2020.
## Operational Goals: Closing the loop 2015-2016

<table>
<thead>
<tr>
<th>Operational Goal #1: Increase Student Enrollment.</th>
<th>Strategy: Collaborate with Industry &amp; Admissions to Market the program Engage in Personal correspondence.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date Adopted</strong></td>
<td><strong>Person Responsible</strong></td>
</tr>
<tr>
<td>2015-16</td>
<td>Dubbelde Todorov</td>
</tr>
</tbody>
</table>

### Assessment Method(s)/Metric(s)
**Direct Evidence:** Office of the Registrar report indicating number of students enrolled/declared as Construction Management (CMT) majors.

**Metric:**
- 25 = new CM students from fall 2015 to fall 2016.
- 70 = total CM program student enrollment fall 2016.

### Assessment Results
**Fall 2016 enrollment:**
- New students: 29 (24 freshmen, 2 transfers, 3 change of major) – **Goal Met.**
- Total Program: 71 (includes above total plus returning students) – **Goal Met.**

### Program Response to Assessment Results:
The stated metrics were met - 25 new students; 70 total program enrollment. The program will continue its collaboration with admissions and its independent marketing efforts.

### Status Update:
None at this time.

### Resource Need Identified:
As enrollments increase the need for new facilities and additional faculty becomes a priority. Furthermore, additional resources for college entities that support the program and its curriculum are required.

### Dean’s Response to Assessment Results
## Operational Goal # 4: Maintain ACCE Accreditation.

**Strategy:** Comply with ACCE Document 103 “Standards & Criteria for Accreditation” and assess ACCE Student Learning Outcomes: #2, #4, #5, #11, and #20.

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>2015-16</td>
<td>Dubbelde Todorov</td>
<td>NO</td>
<td>____Communication</td>
<td>May 2016 – assessed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>____Critical Analysis</td>
<td>May 2016 – COMPLETE</td>
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<td>____Synthesis</td>
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<td>____Quant Literacy</td>
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</table>

**Assessment Method(s)**

**Direct Evidence/Metric:**
- Submit First Year report to ACCE.
- Assess Program Level Student Learning Outcomes (PLSLO) - #2, #4, #5, #11, & #20 (as outlined in the Student Learning Goals section of this report) in accordance with ACCE SLO based standards.

**Assessment Results**
- The program received approval of the ACCE First Year report (see attached response from ACCE) – **Goal Met.**
- The assessment of the PLSLO’s identified to the left are contained in the first section of this report (CM Goals Report 2016-17) – **Goal Met.**

**Program Response to Assessment Results:** The program will continue to assess and make necessary changes to its program curriculum consistent with the ACCE mandates, the Strategic Plan, and the Quality Improvement Plan (QIP).

**Status Update**
- None at this time.

**Resource Need Identified:**
- CM Materials Lab, as indicated in the ACCE accreditation site visit report (spring 2015).

**Dean’s Response to Assessment Results**
**Operational Goal #6:** Achieve a graduate employment rate of 80% within three (3) months of graduation.

**Strategy:** Connect students to industry via summer job opportunities, program internship requirements, and industry networking prospects.

<table>
<thead>
<tr>
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<th>Targeted Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-16</td>
<td>Dubbelde Todorov</td>
<td>NO</td>
<td>NO</td>
<td>September 2016 - assessed September 2016 - COMPLETE</td>
</tr>
</tbody>
</table>

**Assessment Method(s)**
Direct Evidence/Metric:
Collecting feedback via the completion of “student graduate data/information sheets,” and periodic program follow-up to stay connected with its graduates.

**Assessment Results**
The program achieved 100% graduate employment rate within 3 months of graduation – **Goal Met.**

**Program Response to Assessment Results**
The program since its return has achieved a consistent placement rate of 100%. The program will continue its efforts regarding industry networking opportunities, career fairs, summer internships, etc.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**

None at this time.

**Status Update**
None at this time.
# Student Learning Goals: 2016 – 2017 Academic Cycle (new ACCE standards apply)

<table>
<thead>
<tr>
<th>PLSLO #1 (ACCE SLO #1): Create written communications appropriate to the construction discipline.</th>
<th>Strategy: Integrate writing assignments into course content. Examples include – class projects, written papers, log/journal entries, reports.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date Adopted</strong></td>
<td><strong>Person Responsible</strong></td>
</tr>
<tr>
<td>2016-17</td>
<td>Dubbelde Todorov</td>
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<tr>
<td><strong>Related to Gen Ed (yes or no)</strong></td>
<td><strong>If yes, which General Education Goal?</strong></td>
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<td><strong>Targeted Completion Date</strong></td>
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<tr>
<td></td>
<td>YES</td>
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<td></td>
<td><em>X</em> Communication</td>
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<td>May 2017 - assessed</td>
</tr>
<tr>
<td></td>
<td>May 2017 - COMPLETE</td>
</tr>
</tbody>
</table>

### Assessment Method(s)

#### Direct Evidence/Metric:
- **CMG 221**: Class paper on a construction topic; English composition test. METRIC: Graded assignment & English Test class average = 80% or greater.
- **CMG 222**: Written field notes from numerous site visits. METRIC: Graded assignment class average = 80% or greater.
- **CMG 336**: Homework – paper on MEP systems. METRIC: The class average of graded paper = 80% or greater.
- **CMG 447**: Semester project – written “company manual.” METRIC: Project’s grammar/composition score class average = 80% or greater.

#### Indirect Evidence/Metric:
- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

### Assessment Results

#### Direct Evidence:
- **CMG 221**: Class paper and English composition test: The class average of the graded written assignments = 82% - **Goal Met**
- **CMG 222**: Written field notes from numerous visits: The class average of the graded written assignments = 84% - **Goal Met**
- **CMG 336**: Homework paper on MEP systems: The class average of the graded homework on MEP systems = 81% - **Goal Met**
- **CMG 447**: Semester project – written “company manual:” The class average of the project’s grammar/composition score = 83% - **Goal Met**

#### Indirect Evidence:
- **CMG 221**: Student/Industry Feedback Average = 84% - **Goal Met**
- **CMG 222**: Student/Industry Feedback Average = 88% - **Goal Met**
- **CMG 336**: Student/Industry Feedback Average = 85% - **Goal Met**
- **CMG 447**: Student/Industry Feedback Average = 93% - **Goal Met**

### Program Response to Assessment Results:
None at this time.

### Status Update:
PLSLO #1 re-assessment to occur during the next three-year assessment cycle per ACCE.

### Resource Need Identified:
None at this time.

### Dean’s Response to Assessment Results
**PLSLO #3 (ACCE SLO #3):** Create a construction project safety plan.

<table>
<thead>
<tr>
<th>Date Adopted</th>
<th>Person Responsible</th>
<th>Related to Gen Ed (yes or no)</th>
<th>If yes, which General Education Goal?</th>
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<tr>
<td>2016-17</td>
<td>Dubbelde Bushardt</td>
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<td><em>X</em> Communication <em>X</em> Critical Analysis</td>
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<tr>
<td></td>
<td></td>
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<td>___Synthesis <em>X</em> Social Awareness ___Quant Literacy</td>
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<table>
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<tbody>
<tr>
<td>(Note any revisions to completion dates here)</td>
</tr>
<tr>
<td>May 2017 - assessed May 2017 - <strong>COMPLETE</strong></td>
</tr>
</tbody>
</table>

**Assessment Method(s)**

**Direct Evidence/Metric**

- CMG 447: Student completion of safety plan as part of semester project. METRIC = the class average of the graded assignments = 80% or greater.
- CMG 475: Student completion of safety plan as part of semester project. METRIC = the class average of the graded assignments = 80% or greater.

**Indirect Evidence/Metric:**

- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Program Response to Assessment Results:** None at this time.

**Assessment Results**

**Direct Evidence:**

- CMG 447: The class average of the graded Safety Plan = 84% - **Goal Met**
- CMG 475: The class average of the graded Safety Plan = 96% - **Goal Met**

**Indirect Evidence:**

- CMG 447: Student/Industry Feedback Average = 90% - **Goal Met**
- CMG 475: Student/Industry Feedback Average = 91% - **Goal Met**

**Status Update:** PLSLO #3 re-assessment to occur during the next three-year assessment cycle per ACCE.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**
PLSLO #10 (ACCE SLO #10): Apply electronic-based technology to manage the construction process

<table>
<thead>
<tr>
<th>Date Adopted</th>
<th>Person Responsible</th>
<th>Strategy: Use class assignments/homework to integrate computer technology into course content.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016-17</td>
<td>Dubbelde, Todorov, Bushardt</td>
<td></td>
</tr>
</tbody>
</table>

**Assessment Method(s)**

**Direct Evidence/Metric:**
- **CMG 117:** Create a door schedule in a BIM model. **METRIC:** The class average of the graded door schedule component = 80% or greater.
- **CMG 331:** The creation/use of electronic spreadsheets to calculate and organize quantity takeoffs. **METRIC:** The class average of the graded electronic spreadsheet portion of estimating lab = 80% or greater.
- **CMG 332:** Complete designated components of the semester project using computer generated estimating software/spreadsheets. **METRIC:** The class average of the graded test component = 80% or greater.
- **CMG 417:** Create parameters to manage quantity, cost and installation time in a BIM. **METRIC:** The class average of the graded test component = 80% or greater.
- **CMG 437:** Complete homework assignments using scheduling software. **METRIC:** The class average of graded homework assignment = 80% or greater.
- **CMG 447:**
  - Complete a construction project manual as a semester class project using word processing software.
  - Complete Procore Fundamentals certification on-line tutorial. **METRIC:** The class average of the semester project = 80% or greater.
- **CMG 475:** Complete a construction project manual as a semester class project using word processing software. The class average of receiving certification = 80% or greater. **Goal Met: Complete Procore Fundamentals certification on-line tutorial.**

**Indirect Evidence/Metric:**
- Student and or industry survey feedback. **METRIC =** the average of the measured response value received = 80% or greater.

**Program Response to Assessment Results:** None at this time.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**

**Related to Gen Ed (yes or no)**

**If yes, which General Education Goal?**

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</tr>
</tbody>
</table>

**Targeted Completion Date**

(Note any revisions to completion dates here)

- May 2017 - assessed
- May 2017 - COMPLETE

**Assessment Results**

**Direct Evidence:**
- **CMG 117:** Create a door schedule in a BIM model. The class average of the graded door schedule component = 83% - **Goal Met**
- **CMG 331:** The creation/use of electronic spreadsheets to calculate and organize quantity takeoffs. The class average of the graded spread sheets = 81% - **Goal Met**
- **CMG 332:** Complete designated components of the semester project using computer generated estimating software/spreadsheets. The % of the project books submitted that reflected an accurate creation estimate worksheets = 100% - **Goal Met**
- **CMG 417:** Create parameters to manage quantity, cost and installation time in a BIM. The class average of graded test component = 86% or greater - **Goal Met**
- **CMG 437:** Complete homework assignments using scheduling software. The class average of the graded homework assignments = 81% - **Goal Met**
- **CMG 447:** Complete a construction project manual as a semester class project using word processing software. **Goal Met:** Complete Procore Fundamentals certification on-line tutorial. The class average of receiving certification = 80% - **Goal Met**
- **CMG 475:** Complete a semester project using estimating and scheduling software for designated project components. The graded class average of the project components = 88% - **Goal Met**

**Indirect Evidence:**
- **CMG 117:** Student/Industry Feedback Average = 80% - **Goal Met**
- **CMG 331:** Student/Industry Feedback Average = 81% - **Goal Met**
- **CMG 332:** Student/Industry Feedback Average = 85% - **Goal Met**
- **CMG 417:** Student/Industry Feedback Average = 83% - **Goal Met**
- **CMG 437:** Student/Industry Feedback Average = 89% - **Goal Met**
- **CMG 447:** Student/Industry Feedback Average = 80% - **Goal Met**
- **CMG 475:** Student/Industry Feedback Average = 84% - **Goal Met**

**Status Update:** PLSLO #10 re-assessment to occur during the next three-year assessment cycle per ACCE.
PLSLO #18(ACCE SLO # 18): Understand the basic principles of sustainable construction.

**Strategy:** Course content that presents sustainability concepts and implementation, followed up by tests/examinations that evaluate student understanding of the role of sustainability in construction.

<table>
<thead>
<tr>
<th>Date Adopted</th>
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<th>Related to Gen Ed (yes or no)</th>
<th>If yes, which General Education Goal?</th>
<th>Targeted Completion Date</th>
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<tbody>
<tr>
<td>2016-17</td>
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<td>___Communication ___Critical Analysis ___Synthesis _X_Social Awareness ___Quant Literacy</td>
<td>May 2017 - assessed May 2017 - COMPLETE</td>
</tr>
</tbody>
</table>

**Assessment Method(s)**

**Direct Evidence/Metric:**
- CMG 103: Complete a course exam. METRIC: The class average of the graded exam component on sustainability = 80% or greater.
- CMG 104: Complete a mid-term test. METRIC: The class average of the graded test component on sustainability = 80% or greater.
- CMG 336: Complete a mid-term test. METRIC: The class average of the graded test component on sustainability = 80% or greater.
- CMG 337: Complete a homework assignment. METRIC: The class average of the graded homework assignment on sustainability = 80% or greater.

**Indirect Evidence/Metric:**
- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Assessment Results**

**Direct Evidence:**
- CMG 103: Complete a course exam: The class average of the graded exam component on sustainability (questions 1-10) = 88.9% - **Goal Met**
- CMG 104: Complete a mid-term test. The class average of the graded test component on sustainability (questions 17, 18, 19 and 25) = 82.5% - **Goal Met**
- CMG 336: Complete a mid-term test. The class average of the graded test component on sustainability (questions 25, 26, 29 and 30) = 90% - **Goal Met**
- CMG 337: Complete a homework assignment. The class average of the graded homework assignment on sustainability = 84% - **Goal Met**

**Indirect Evidence:**
- CMG 103: Student/Industry Feedback Average The average of the measured response value received from the students = 81% - **Goal Met**
- CMG 104: Student/Industry Feedback Average The average of the measured response value received from the students = 80% - **Goal Met**
- CMG 336: Student/Industry Feedback Average The average of the measured response value received from the students = 82% - **Goal Met**
- CMG 337: Student/Industry Feedback Average The average of the measured response value received from the students = 86% - **Goal Met**

**Program Response to Assessment Results:** None at this time.

**Status Update:** PLSLO #18 re-assessment to occur during the next three-year assessment cycle per ACCE.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**
**PLSLO #19 (ACCE SLO #19):** Understand the basic principles of structural behavior.

**Strategy:** Classroom discussion, assigned outside readings that present the principles of structural behavior; followed up by tests/examinations that evaluate the students understanding of these principles.

<table>
<thead>
<tr>
<th>Date Adopted</th>
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<th>Targeted Completion Date</th>
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</thead>
<tbody>
<tr>
<td>2016-17</td>
<td>Dubbelde Todorov Bouteiller</td>
<td>YES</td>
<td>_X_Communication _X_Critical Analysis _X_Synthesis ___Social Awareness _X_Quant Literacy</td>
<td>May 2017 - assessed May 2017 - COMPLETE</td>
</tr>
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</table>

**Assessment Method(s)**

**Direct Evidence/Metric:**
- CMG 104: Completion of homework assignment. METRIC: The class average of graded homework assignment = 80% or greater.
- CMG 221: Complete a course exam. METRIC: The class average of graded exam questions regarding structural behavior = 80% or greater.
- CMG 222: Complete a course exam. METRIC: The class average of graded exam questions regarding structural behavior = 80% or greater.
- CMG 337: Complete a homework assignment. METRIC: The class average of the graded homework assignment = 80% or greater.
- CMG 436: Complete a homework assignment and course exam. METRIC: The class average of the graded homework assignment and course exam = 80% or greater.

**Indirect Evidence/Metric:**
- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Assessment Results**

**Direct Evidence:**
- CMG 104: Completion of homework assignment (Homework #4 - Chapter 10 – Foundation and Floor Systems). The class average of graded homework assignment = 84% - **Goal Met**
- CMG 221: Complete a course exam. The class average of graded exam questions regarding structural behavior = 44% - **Goal Not Met**
- CMG 222: Complete course exam. The class average of graded exam questions regarding structural behavior = 80% - **Goal Met**
- CMG 337: Complete a homework assignment (Homework #3 & #4). The class average of graded homework assignment = 84% - **Goal Met**
- CMG 436: Complete a homework assignment and course exam. The class average of graded homework assignments and course exams = 67% - **Goal Not Met**

**Indirect Evidence:**
- CMG 104: Student/Industry Feedback Average = 84% - **Goal Met**
- CMG 221: Student/Industry Feedback Average = 86% - **Goal Met**
- CMG 222: Student/Industry Feedback Average = 89% - **Goal Met**
- CMG 337: Student/Industry Feedback Average = 83% - **Goal Met**
- CMG 436: Student/Industry Feedback Average = 92% - **Goal Met**
**PLSLO #19 Continued**

**Program Response to Assessment Results:**
- **CMG 221:** Provide students an in-class structural problem to solve.
- **CMG 222:** This course also assesses PLSLO #19. CMG 222 lectures reinforced the information regarding this learning outcome. The assessment results met the standard.

Even though CMG 221 results did not meet the standard, CMG 222 assessment results did. CMG 222 is a follow on course to CMG 221 and the same students enrolled in CMG 221 were enrolled in CMG 222 in consecutive semesters. Therefore, CMG 221 will not undergo reassessment. PLSLO #19 will be assessed during the normal three-year assessment cycle prescribed by ACCE.

| Resource Need Identified: | None at this time. |
| Dean’s Response to Assessment Results | Status Update: PLSLO #19 re-assessment to occur during the next three-year assessment cycle per ACCE. |
## Operational Goals: 2016 – 2017 Academic Cycle

(1)

### Operational Goal #2: Maintain program curriculum alignment with the needs of industry

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>2016-17</td>
<td>Dubbelde Todorov</td>
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<td>___Communication ___Critical Analysis ___Synthesis ___Social Awareness ___Quant Literacy</td>
<td>May 2017 - assessed May 2017 - COMPLETE</td>
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</table>

### Assessment Method(s)

**Direct Evidence/Metric:**
Analysis of program feedback data collected by the procedures outlined in the program’s QIP, and the documentation of any actions impacting the curriculum that are implemented as a result of the feedback assessment.

### Assessment Results

The CM program met with its Industry Advisory Committee subpanel on Curriculum and reviewed the program feedback data collected by the procedures outlined in the program’s QIP. The panel proposed and the CM program adopted the use of a project management software into the curriculum. As a result, PROCORE project management software was introduced in CMG 225 and CMG 447 course content.

### Program Response to Assessment Results: None at this time.

### Status Update: OG #2 re-assessment to occur during the next three-year assessment cycle per ACCE.

### Resource Need Identified:

None at this time. However, future resource needs are subject to the feedback analysis.

### Dean’s Response to Assessment Results
Operational Goal #3: Facility improvements.

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<tr>
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<tr>
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<td></td>
<td>Quant Literacy</td>
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</table>

Assessment Method(s)
Direct Evidence/Metric:
Track progress of new CM building through IAC discussion via recorded meeting minutes, progress of design documents, project funding, etc.

Assessment Results
The progress of the new CM building is available in the current Advisory Committee meeting minutes.

Program Response to Assessment Results: None at this time.

Resource Need Identified: Financial commitment for project funding: estimated amount $3,000,000. The committed funds as of May 2017: $1,600,000.

Dean’s Response to Assessment Results
## Student Learning Goals: 2017 – 2018 Academic Cycle

### PLSLO #6 (ACCE SLO #6): Analyze professional decisions based on ethical principles.

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<tr>
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<th>Targeted Completion Date</th>
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<tbody>
<tr>
<td>2017-18</td>
<td>Dubbelde Todorov Bouteiller</td>
<td></td>
<td>YES</td>
<td>May 2018 - assessed</td>
</tr>
</tbody>
</table>

**Strategy:** Course content that includes ethics concepts, discussions and case studies, followed up by tests/examinations that evaluate the student’s understanding of professional decisions based on ethical principles.

**Assessment Method(s)**

**Direct Evidence/Metric:**
- CMG 103: Introduction ethical principles and graded assignment. METRIC: Graded assignments class average = 80% or greater.
- CMG 332: Complete a course exam. METRIC: The class average of graded exam questions pertaining to ethics = 80% or greater.
- CMG 336: Complete a course exam. METRIC: The class average of graded exam questions pertaining to ethics = 80% or greater.
- CMG 345: Complete a course exam. METRIC: The class average of graded exam section pertaining to ethics = 80% or greater.
- CMG 447: Complete a course exam. METRIC: The class average of graded exam questions pertaining to ethics = 80% or greater.

**Indirect Evidence/Metric:**
- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Assessment Results**

**Direct Evidence:**
- CMG 103:
- CMG 332:
- CMG 336:
- CMG 345:
- CMG 447:

**Indirect Evidence:**
- CMG 103:
- CMG 332:
- CMG 336:
- CMG 345:
- CMG 447:

**Program Response to Assessment Results:** None at this time.  
**Status Update:** None at this time.  
**Resource Need Identified:** None at this time.  
**Dean’s Response to Assessment Results**
PLSLO #7 (ACCE SLO #7): Analyze construction documents for planning and management of construction processes.

**Strategy:** Course content that includes analysis of construction documents for planning and management of construction processes, followed up by tests, examinations and projects that evaluate the student’s understanding.

<table>
<thead>
<tr>
<th>Date Adopted</th>
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<th>Targeted Completion Date</th>
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<tr>
<td>2017-18</td>
<td>Dubbelde</td>
<td>YES</td>
<td>X_Critical Analysis</td>
<td>May 2018 - assessed</td>
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<td>Todorov</td>
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<td>___Synthesis</td>
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<td>Cross</td>
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<td>___Social Awareness</td>
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<td></td>
<td></td>
<td>___Quant Literacy</td>
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</table>

**Assessment Method(s)**

**Direct Evidence/Metric:**
- **CMG 225:** Complete a course exam. METRIC: The class average of graded exam questions pertaining to analysis of construction documents = 80% or greater.
- **CMG 336:** Complete a semester project. METRIC: The class average of graded semester project pertaining to analysis of construction documents = 80% or greater.
- **CMG 345:** Complete a course exam. METRIC: The class average of graded exam section pertaining to analysis of construction documents = 80% or greater.
- **CMG 447:** Complete a course exam. METRIC: The class average of graded exam questions pertaining to analysis of construction documents = 80% or greater.

**Indirect Evidence/Metric:**
- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Program Response to Assessment Results:** None at this time.

**Status Update:** None at this time.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**
PLSLO #8 (ACCE SLO #8): Analyze methods, materials, and equipment to construct projects.

**Strategy:** Course content that includes analysis of methods, materials, and equipment to construct projects, followed up by tests/examinations that evaluate the student’s understanding.

<table>
<thead>
<tr>
<th>Date Adopted</th>
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<th>Related to Gen Ed (yes or no)</th>
<th>If yes, which General Education Goal?</th>
<th>Targeted Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-18</td>
<td>Dubbelde, Todorov, Cross</td>
<td>YES</td>
<td>X_Critical Analysis</td>
<td>May 2018 - assessed</td>
</tr>
</tbody>
</table>

**Assessment Method(s)**

**Direct Evidence/Metric:**
- **CMG 221:** Complete a course exam. METRIC: The class average of graded exam questions pertaining to analysis of methods and materials = 80% or greater.
- **CMG 222:** Complete a course exam. METRIC: The class average of graded exam questions pertaining to analysis of methods, materials and equipment = 80% or greater.
- **CMG 337:** Complete a homework assignment. METRIC: The class average of the graded homework assignment pertaining to analysis of materials = 80% or greater.
- **CMG 345:** Complete a homework assignment. METRIC: The class average of the graded homework assignment pertaining to analysis of methods, materials and equipment = 80% or greater.

**Indirect Evidence/Metric:**
- Student and/or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Assessment Results**

**Direct Evidence**
- **CMG 221:**
- **CMG 222:**
- **CMG 337:**
- **CMG 345:**

**Indirect Evidence:**
- **CMG 221:**
- **CMG 222:**
- **CMG 337:**
- **CMG 345:**

**Program Response to Assessment Results:** None at this time.

**Status Update:** None at this time.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**
### PLSLO #12 (ACCE SLO #12):
Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction processes.

<table>
<thead>
<tr>
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<th>If yes, which General Education Goal?</th>
<th>Targeted Completion Date</th>
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<tbody>
<tr>
<td>2017-18</td>
<td>Todorov Cross Bushardt</td>
<td>NO</td>
<td>_Communication _Critical Analysis _Synthesis _Social Awareness _Quant Literacy</td>
<td>May 2018 - assessed</td>
</tr>
</tbody>
</table>

#### Assessment Method(s)

**Direct Evidence/Metric:**
- **CMG 225:** Complete a course exam. METRIC: The class average of graded exam questions pertaining to methods of project delivery and the roles and responsibilities of constituencies involved in the design and construction processes = 80% or greater.
- **CMG 336:** Complete a semester project. METRIC: The class average of graded semester project pertaining to methods of project delivery and the roles and responsibilities of constituencies involved in the design and construction processes = 80% or greater.
- **CMG 475:** Complete a semester project. METRIC: The class average of graded semester project pertaining to methods of project delivery and the roles and responsibilities of constituencies involved in the design and construction processes = 80% or greater.

**Indirect Evidence/Metric:**
- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

#### Assessment Results

**Direct Evidence**
- CMG 225:
- CMG 336:
- CMG 475:

**Indirect Evidence**
- CMG 225:
- CMG 336:
- CMG 475:

#### Program Response to Assessment Results
None at this time.

#### Status Update
None at this time.

#### Resource Need Identified
None at this time.

#### Dean’s Response to Assessment Results
# PLSLO #13 (ACCE SLO #13): Understand construction risk management.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>2017-18</td>
<td>Dubbelde Bushardt Cross</td>
<td>NO</td>
<td>___Communication ___Critical Analysis ___Synthesis ___Social Awareness ___Quant Literacy</td>
<td>May 2018 - assessed</td>
</tr>
</tbody>
</table>

**Assessment Method(s)**

**Direct Evidence/Metric:**
- CMG 103: Complete a course exam. METRIC: The class average of graded exam questions pertaining to construction risk management = 80% or greater.
- CMG 225: Complete a course exam. METRIC: The class average of graded exam questions pertaining to construction risk management = 80% or greater.
- CMG 447: Complete a course exam. METRIC: The class average of graded exam questions pertaining to construction risk management = 80% or greater.
- CMG 475: Create a semester project. METRIC: The class average of the graded semester project pertaining to construction risk management = 80% or greater.

**Indirect Evidence/Metric:**
- Student and/or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Assessment Results**

**Direct Evidence**
- CMG 103:
- CMG 225:
- CMG 447:
- CMG 475:

**Indirect Evidence**
- CMG 103:
- CMG 225:
- CMG 447:
- CMG 475:

**Program Response to Assessment Results:** None at this time.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**
PLSLO #15 (ACCE SLO #15): Understand construction quality assurance and control.

<table>
<thead>
<tr>
<th>Date Adopted</th>
<th>Person Responsible</th>
<th>Related to Gen Ed (yes or no)</th>
<th>If yes, which General Education Goal?</th>
<th>Targeted Completion Date (Note any revisions to completion dates here)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-18</td>
<td>Bushardt</td>
<td>NO</td>
<td>Communication</td>
<td>May 2018 - assessed</td>
</tr>
<tr>
<td></td>
<td>Bouteiller</td>
<td></td>
<td>Critical Analysis</td>
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<tr>
<td></td>
<td>Cross</td>
<td></td>
<td>Synthesis</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Social Awareness</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Quant Literacy</td>
<td></td>
</tr>
</tbody>
</table>

**Assessment Method(s)**

**Direct Evidence/Metric:**
- **CMG 103:** Complete a course exam. METRIC: The class average of graded exam questions pertaining to construction quality assurance and control = 80% or greater.
- **CMG 225:** Complete a course exam. METRIC: The class average of graded exam questions pertaining to construction quality assurance and control = 80% or greater.
- **CMG 475:** Create a semester project. METRIC: The class average of the graded semester project pertaining to construction quality assurance and control = 80% or greater.

**Indirect Evidence/Metric:**
- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Assessment Results**

**Direct Evidence**
- **CMG 103:**
- **CMG 225:**
- **CMG 475:**

**Indirect Evidence:**
- **CMG 103:**
- **CMG 225:**
- **CMG 475:**

**Program Response to Assessment Results:** None at this time.

**Status Update:** None at this time.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**
**PLSLO #17 (ACCE SLO #17):** Understand the legal implications of contract, common, and regulatory law to manage a construction project.

<table>
<thead>
<tr>
<th>Date Adopted</th>
<th>Person Responsible</th>
<th>Related to Gen Ed (yes or no)</th>
<th>If yes, which General Education Goal?</th>
<th>Targeted Completion Date (Note any revisions to completion dates here)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-18</td>
<td>Dziekan Cross</td>
<td>NO</td>
<td>___Communication</td>
<td>May 2018 - assessed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>___Critical Analysis</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>___Synthesis</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>___Social Awareness</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>___Quant Literacy</td>
<td></td>
</tr>
</tbody>
</table>

**Assessment Method(s)**

**Direct Evidence/Metric:**
- **CMG 225:** Complete a course exam. METRIC: The class average of graded exam questions pertaining to the legal implications of contract, common, and regulatory law to manage a construction project = 80% or greater.
- **CMG 423:** Complete a course exam. METRIC: The class average of graded exam questions pertaining to the legal implications of contract, common, and regulatory law to manage a construction project = 80% or greater.

**Indirect Evidence/Metric:**
- Student and or industry survey feedback. METRIC = the average of the measured response value received = 80% or greater.

**Program Response to Assessment Results:** None at this time.

**Status Update:** None at this time.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**
Operational Goals: 2017 – 2018 Academic Cycle

Operational Goal #7: Sustain a productive relationship with the administration and admissions.

<table>
<thead>
<tr>
<th>Date Adopted</th>
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<th>Related to Gen Ed (yes or no)</th>
<th>If yes, which General Education Goal?</th>
<th>Targeted Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-18</td>
<td>Dubbelde, Todorov</td>
<td>NO</td>
<td>NO</td>
<td>May 2018 - assessed</td>
</tr>
</tbody>
</table>

Assessment Method(s)
Direct Evidence/Metric:
Follow guidelines/procedures outlined in the Program’s QIP. Continue earnest dialogue with administration regarding program needs. Participate in Utica College admission events. Record meeting minutes.

Assessment Results

Program Response to Assessment Results: None at this time.

Status Update: None at this time.

Resource Need Identified:
None at this time. However, future resource needs are subject to decisions made at the meetings with administration and admissions personnel.

Dean’s Response to Assessment Results
**Operational Goal #8:** Increase industry financial support/participation in the program.

**Strategy:** Follow guidelines/procedures outlined in the Program’s Strategic Plan and Quality Improvement Plan.

<table>
<thead>
<tr>
<th>Date Adopted</th>
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<th>Related to Gen Ed (yes or no)</th>
<th>If yes, which General Education Goal?</th>
<th>Targeted Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-18</td>
<td>Dubbelde Todorov</td>
<td>NO</td>
<td>Communication</td>
<td>May 2018 - assessed</td>
</tr>
</tbody>
</table>

**Assessment Method(s)**
Direct Evidence/Metric: TBD

**Assessment Results**

**Program Response to Assessment Results:** None at this time.

**Status Update:** None at this time.

**Resource Need Identified:** None at this time.

**Dean’s Response to Assessment Results**
VI. Student Achievement:

A. Student employment

<table>
<thead>
<tr>
<th>Type of Employer</th>
<th>No. of Graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction related employment</td>
<td></td>
</tr>
<tr>
<td>Construction or construction management firm</td>
<td>8</td>
</tr>
<tr>
<td>Material or Equipment supplier</td>
<td></td>
</tr>
<tr>
<td>Owner (utility, RR, etc)</td>
<td></td>
</tr>
<tr>
<td>Design or Development</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Continuing Education</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Non-construction employment</td>
<td></td>
</tr>
<tr>
<td>Seeking employment</td>
<td></td>
</tr>
<tr>
<td>No information</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>

B. Scholarships

Endowed:
Walter A. Cagnolin Memorial Scholarship
Full-time, matriculated, undergraduate Utica College student majoring in Construction Management. Awards based on academic merit, future promise and financial need.

Gustave J. & Teresa Rose DeTraglia, Sr. Scholarship
Financial assistance awards shall be made to Oneida County residents who demonstrate academic merit and financial need, and who are enrolled in either the Construction Management or Education program at Utica College. If no students meet this criterion, then awards should be made to students showing financial need.

Thomas Proctor Eldred, Sr. Memorial Scholarship
The income from the fund shall be awarded to students from New York State with demonstrated financial need that is majoring in the Construction Management Program.
Charles and Connie Gaetano Scholarship
Full-time students majoring in Construction Management. Recipient(s) must demonstrate academic merit and financial need.

John Quackenbush Scholarship
Financial assistance awards shall be made to a full-time student from Central New York who is majoring in Construction Management. The student must demonstrate academic merit and financial need and show initiative, a strong desire to learn, and possess those traits, which will make him/her an asset both to his/her profession and community.

General Institutional Scholarship
A student majoring in Construction Management is eligible to apply for any institutional scholarship not specifically designated to another program/entity.

C. Data to Support Qualitative Claims by the Program

The data utilized in the assessment process along with source material obtained from stakeholders, graduates, and employees is available at the office of the School of Business and Justice Studies, Utica College.