

## CSM Assessment Results (2016-2017)

### *Assessment Results for the CSM Program Objectives*

Academic Year: **2016-17**

<b>Program objectives</b>	<b>Measures</b>	<b>Performance criteria</b>	<b>Data reported</b>	<b>Meet criteria?</b>	<b>Action(s)</b>
Maintain a proper size of the program	The total number of students enrolled in the program during the fall semester	The total number of students enrolled in the program is no less than 300	285	No	The previous year's enrollment number was 308, which met the criteria. Wait for more data to determine action.
Increase the diversity of student body	% of women and minority students enrolled in the program during the fall semester	Maintain 10% women and minority students, respectively, for the program	5.2% (Women); 9.7% (Minority)	No No	The past two years' rates for women were 5.7% and 6.7%, respectively, and the minority rates for the past two years were 12%. It seems that the women student population in CSM was consistently lower than the set criteria. The FABE department recruitment staff will work with the IAC Diversity Committee to strengthen our outreach efforts within and beyond OSU (including a Women Inspire Construction Panel Discussion event).

Provide extra-curricular opportunities for students	% of students having extra-curricular activities based on the Exit Survey results	Providing extra-curricular opportunities for 50% of students	Not available	Not available	Data will be collected during the next academic year.
Provide students with experiential learning/internship experience	% of students with one or more internships based on the Exit Survey results	Have 100% of students to obtain experiential learning/internship experience and at least 60% of students having two or more internships	100% for one internship/Not available	One internship was required for graduation. So, each student graduating in this year had at least one internship finished/Not available	Will collect data for students having 2 or more internships during the next academic year.
Achieve a high job placement rate for CSM graduates	The 6-month post-graduation placement rate	Over 95% of CSM graduates secure a job within 6 months of graduation	97.1%	Yes	No action
Maintain proper accreditation for the program	The ACCE accreditation status	Maintain accreditation by ACCE	ACCE accredited	Yes	Continue developing the direct and indirect assessment methods for SLOs.

***Assessment Results for the ACCE SLOs***

**SLO #1 Create written communications appropriate to the construction discipline**

<b>Where assessed</b>	<b>Assessment items</b>	<b>Performance criteria</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
CSM4605 Professional Development II	Combined grade for four writing assignments	75% of students scoring 70% or higher	71.4%		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Not met based on one direct measure		
<b>Action(s)</b>			Wait for more data and no action taken		

**SLO #2 Create oral presentations appropriate to the construction discipline**

<b>Where assessed</b>	<b>Assessment items</b>	<b>Performance criteria</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
CSM4605 Professional Development II	Final presentation	75% of students scoring 70% or higher	100%		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Met based on one direct measure		
<b>Action(s)</b>			No action taken		

SLO #3 Create a construction project safety plan

Where assessed	Assessment items	Performance criteria	2016-17	2017-18	2018-19
CSM2600 Construction Safety and Health	Safety plan assignment (to be developed)	75% of students scoring 70% or higher	Not available		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Measures not developed		
<b>Action(s)</b>			Worked with the instructor to develop the assessment method		

SLO #4 Create construction project cost estimates

Where assessed	Assessment items	Performance criteria	2016-17	2017-18	2018-19
CSM3450 Estimating	To be developed	75% of students scoring 70% or higher	Not available		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Measures not developed		
<b>Action(s)</b>			Worked with the instructor to develop the assessment method		

SLO #5 Create construction project schedules

Where assessed	Assessment items	Performance criteria	2016-17	2017-18	2018-19
CSM3451 Scheduling	A schedule lab based on an actual project	75% of students scoring 70% or higher	96.8%		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Met based on one direct measure		
<b>Action(s)</b>			No action taken		

SLO #6 Analyze professional decisions based on ethical principles

Where assessed	Assessment items	Performance criteria	2016-17	2017-18	2018-19
CSM4605 Professional Development II	One ethics essay writing assignment	75% of students scoring 70% or higher	94.5%		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Met based on one direct measure		
<b>Action(s)</b>			No action taken		

SLO #7 Analyze construction documents for planning and management of construction processes

<b>Where assessed</b>	<b>Assessment items</b>	<b>Performance criteria</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
CSM3450 Estimating	To be developed	75% of students scoring 70% or higher	Not available		
CSM 3451 Scheduling	To be developed	75% of students scoring 70% or higher	Not available		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Measures not developed		
<b>Action(s)</b>			Worked with the instructor to develop the assessment method		

SLO #8 Analyze methods, materials, and equipment used to construct projects

<b>Where assessed</b>	<b>Assessment items</b>	<b>Performance criteria</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
CSM 4660 Heavy Construction Management	To be developed	75% of students scoring 70% or higher	Not available		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Measures not developed		
<b>Action(s)</b>			Worked with the instructor to develop the assessment method		

SLO #9 Apply construction management skills as a member of a multi-disciplinary team

Where assessed	Assessment items	Performance criteria	2016-17	2017-18	2018-19
CSM4900 Construction Management Capstone	To be developed	75% of students scoring 70% or higher	Not available		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Measures not developed		
<b>Action(s)</b>			We phased the development of direct measures for SLOs and did not plan to address this SLO at this stage.		

SLO #10 Apply electronic-based technology to manage the construction process

Where assessed	Assessment items	Performance criteria	2016-17	2017-18	2018-19
CSM4641 Construction Project Management	Average grade for two homework assignments using electronic-based technology to create site utilization plan and request for change order	75% of students scoring 70% or higher	96.8%		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Met based on one direct measure		
<b>Action(s)</b>			No action taken		

SLO #11 Apply basic surveying techniques for construction layout and control

<b>Where assessed</b>	<b>Assessment items</b>	<b>Performance criteria</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
CSM2440 Construction Surveying and Site Development	To be developed	75% of students scoring 70% or higher	Not available		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Measures not developed		
<b>Action(s)</b>			Worked with the instructor to develop the assessment method		

SLO #12 Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process

<b>Where assessed</b>	<b>Assessment items</b>	<b>Performance criteria</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
CSM4642 Construction Contracts & Documents	To be developed	75% of students scoring 70% or higher	Not available		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Measures not developed		
<b>Action(s)</b>			Worked with the instructor to develop the assessment method		

SLO #13 Understand construction risk management

Where assessed	Assessment items	Performance criteria	2016-17	2017-18	2018-19
CSM4642 Construction Contracts & Documents	To be developed	75% of students scoring 70% or higher	Not available		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Measures not developed		
<b>Action(s)</b>			Worked with the instructor to develop the assessment method		

SLO #14 Understand construction accounting and cost control

Where assessed	Assessment items	Performance criteria	2016-17	2017-18	2018-19
CSM4900 Construction Management Capstone	A homework assignment related to applying cost code and type to estimated costs	75% of students scoring 70% or higher	76.1%		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Met based on one direct measure		
<b>Action(s)</b>			No action taken		

SLO #15 Understand construction quality assurance and control

Where assessed	Assessment items	Performance criteria	2016-17	2017-18	2018-19
CSM4641 Construction Project Management	A homework assignment to create a quality control plan based on given construction documents	75% of students scoring 70% or higher	100%		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Met based on one direct measure		
<b>Action(s)</b>			No action taken		

SLO #16 Understand construction project control processes

Where assessed	Assessment items	Performance criteria	2016-17	2017-18	2018-19
CSM4641 Construction Project Management	A homework assignment to create bid packages from a set of contract specifications	75% of students scoring 70% or higher	100%		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Met based on one direct measure		
<b>Action(s)</b>			No action taken		

SLO #17 Understand the legal implications of contract, common, and regulatory law to manage a construction project

<b>Where assessed</b>	<b>Assessment items</b>	<b>Performance criteria</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
CSM4642 Construction Contracts & Documents	Average grade for midterm and final	75% of students scoring 70% or higher	96.1%		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Met based on one direct measure		
<b>Action(s)</b>			No action taken		

SLO #18 Understand the basic principles of sustainable construction

Where assessed	Assessment items	Performance criteria	2016-17	2017-18	2018-19
CSM4900 Construction Management Capstone	To be developed	75% of students scoring 70% or higher	Not available		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Measures not developed		
<b>Action(s)</b>			We phased the development of direct measures for SLOs. This SLO was not addressed at this phase.		

SLO #19 Understand the basic principles of structural behavior

<b>Where assessed</b>	<b>Assessment items</b>	<b>Performance criteria</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
CSM3545 Structures for Construct Managers I	Average grade of three midterms	75% of students scoring 70% or higher	42.7%		
CSM3546 Structures for Construct Managers II	Average grade of three midterms	75% of students scoring 70% or higher	70.8%		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Not met based on two direct measures		
<b>Action(s)</b>			Wait for more data and no action taken		

SLO #20 Understand the basic principles of mechanical, electrical and piping system

<b>Where assessed</b>	<b>Assessment items</b>	<b>Performance criteria</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
CSM2310 Electrical & Lighting Systems for Buildings	Average grade of two midterms	75% of students scoring 70% or higher	91.0%		
CSM 2345 Mechanical Systems for Buildings	Average grade of three midterms	75% of students scoring 70% or higher	94.7%		
Exit Survey	Question on how a student feels that he/she was prepared to accomplish this SLO	Average score 3.5 or higher on a scale of 1-5	Not available		
<b>Meet criteria?</b>			Met based on two direct measures		
<b>Action(s)</b>			No action taken		