

ACCE Student Learning Outcomes (SLOs) and Assessment Measures in CSM courses

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Student Learning Outcomes (SLOs)	CSM 2205 Intro to Constr. Manage.	CSM 2240 Matl & Methods I	CSM 2241 Matl & Methods II	CSM 2305 Professional Dev. I	CSM 2310 Elec. & Lighting	CSM 2345 Mech. Systems	CSM 2440 Survey & Site Dev.	CSM 2600 Constr. Safety	CSM 3450 Estimating	CSM 3451 Scheduling	CSM 3545 Structures for CM I	CSM 3456 Structures for CM II	CSM 3191 Internship	CSM 4605 Professional Dev. II	CSM 4641 Constr. Proj. Manage.	CSM 4642 Constr. Contract & Doc.	CSM 4660 Heavy Constr. Manage.	CSM 4900 Capstone
1. Create written communications appropriate to the construction discipline	I			I				R						A	R	R		
2. Create oral presentations appropriate to the construction discipline	I			I				R					R	A				
3. Create a construction project safety plan		I						A										R
4. Create construction project cost estimates		I	I						A	A					R	R		R
5. Create construction project schedules										A					R			R
6. Analyze professional decisions based on ethical principles								I		I	I	I		I	R	R		R
7. Analyze construction documents for planning and management of construction processes		I					I	A	A	A	A			A	R	R	R	R
8. Analyze methods, materials, and equipment used to construct projects		A	A		A	A		R	R								A	R
9. Apply construction management skills as a member of a multi-disciplinary team								I	R							R		
10. Apply electronic-based technology to manage the construction process		I					R	R	R							**		
11. Apply basic surveying techniques for construction layout and control							A	I	I								R	
12. Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process										I					I	A		R
13. Understand construction risk management		I						R							R	R		
14. Understand construction accounting and cost control									I	I					R	R		R
15. Understand construction quality assurance and control		I	I								R	R			R	I/R		
16. Understand construction project control processes										I					R	R		
17. Understand the legal implications of contract, common, and regulatory law to manage a construction project							I								R	R		R
18. Understand the basic principles of sustainable construction			I	I	I	I												R
19. Understand the basic principles of structural behavior		I	I								A	A						
20. Understand the basic principles of mechanical, electrical and piping systems		I			A	A			R									R

Assessment Methods

** Under development

Direct Measure: in the form of a student product or performance that can be evaluated; e.g., licensure or certification, embedded testing or quizzes, assignment, pre- post-tests, and capstone projects

Indirect Measure: the perception, opinion, or attitude of students (or others); e.g., student surveys, alumni surveys, employer surveys, end-of-course evaluations, interviews, job placement data, enrollment in higher degree programs

Introduction (I): the concepts were introduced to the students.

Reinforcement (R): the concepts introduced by lower-level courses are reinforced in the course, so students can have better understanding or are able to apply the knowledge.

Main Assessment (A): the concepts are introduced and reinforced as well in this course.