

ACCE Student Learning Outcomes (SLOs) and Assessment Measures in CSM Required Courses (Revision: 5/22/2019)

	M. Ware	D. Schafer	L. Heckendorn	J. Suchy	A. Britt	J. Suchy	Q. Chen	D. Schafer	J. Eaves	P. Sutton	P. Sutton	M. Brown	M. Brown	M. Ware	A. Pruneau	M. Banta	M. Scott	P. Sutton	M. Ware	
	CSM 2205 Intro to Constr. Manage.	CSM 2210 Graphics Presentation I	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	Exit Survey
Student Learning Outcomes (SLOs)																				
1. Create written communications appropriate to the construction discipline			I	I		I		R							DA	R	R		R	IA
2. Create oral presentations appropriate to the construction discipline	I			I		R								R	DA					IA
3. Create a construction project safety plan		I							DA										R	IA
4. Create construction project cost estimates		I	I		I	I	I		DA							R	R		R	IA
5. Create construction project schedules	I	I								DA						R			R	IA
6. Analyze professional decisions based on ethical principles								I		I	I	I		DA	R	R				IA
7. Analyze construction documents for planning and management of construction processes		I					I		DA	DA	R	R			R	R	R	R	R	IA
8. Analyze methods, materials, and equipment used to construct projects	I	I	I	I					DA	R	R	R					DA		R	IA
9. Apply construction management skills as a member of a multi-disciplinary team										I	I	I				R			DA	IA
10. Apply electronic-based technology to manage the construction process									I	I					DA					IA
11. Apply basic surveying techniques for construction layout and control							DA											R		IA
12. Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process	I									I					R	DA			R	IA
13. Understand construction risk management		I						R							R	DA				IA
14. Understand construction accounting and cost control	I								R	R					R				DA	IA
15. Understand construction quality assurance and control		I	I		I	I					R	R			DA				R	IA
16. Understand construction project control processes			I						I	I					DA	R				IA
17. Understand the legal implications of contract, common, and regulatory law to manage a construction project	I					I	I	I			I				R	DA			R	IA
18. Understand the basic principles of sustainable construction			I		I	I	I												DA	IA
19. Understand the basic principles of structural behavior		I	I				R				DA	DA								IA
20. Understand the basic principles of mechanical, electrical and piping systems					DA	DA			R										R	IA

Note:
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.
Direct Assessment (DA): Evidence of student learning is 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 Assessment (IA): 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