

**Student Learning Outcomes - Course Learning Outcomes
Introduce - Reinforce - Assessment Map AY 2018-2019**

9/5/2018

| Course | Course Title | SLO 1 Write | SLO 2 Oral | SLO 3 Safety | SLO 4 Estim | SLO 5 Sched. | SLO 6 Ethics | SLO 7 Docs. | SLO 8 Methods | SLO 9 Team | SLO 10 IT | SLO 11 Survey | SLO 12 Deliver | SLO 13 Risk | SLO 14 Acct. | SLO 15 QA/QC | SLO 16 Control | SLO 17 Contract | SLO 18 Sustain. | SLO 19 Struct. | SLO 20 MEP |
|----------|--|----------------|---------------|-----------------|----------------|-----------------|-----------------|----------------|------------------|---------------|--------------|------------------|-------------------|----------------|-----------------|-----------------|-------------------|--------------------|--------------------|-------------------|---------------|
| CMGT 100 | Concepts of Construction | I | | I | I | I | I | | | I | | | I | | I | I | I | I | | | |
| CMGT 110 | Construction Graphics | | | | | | | I | | | I | | | | | | | | | | |
| CMGT 135 | Construction Materials and Systems | | | | | | | | I | | | | | | | I | | | I | | |
| CMGT 210 | Analysis of Construction Drawings and Specifications | | | | I | | I | I | | | R | I | R | | | I | | | | | I |
| CMGT 235 | Electrical and Mechanical Systems | | | | | | | | | | | | | | | | | | R/DA | | DA |
| CMGT 270 | * Building Information Modeling | | | | | | | | | | | | | | | | | | | | |
| CMGT 275 | * Architectural History | | | | | | | | | | | | | | | | | | | | |
| CMGT 330 | Principles of Soil Mechanics and Foundations | | I | | | | | | | | | DA | | | | R | | | | | |
| CMGT 332 | Construction Method Analysis | | DA | | R | R | | R | DA | DA | | | R | I | | R | R | | | | R |
| CMGT 335 | Construction Equipment | | | R | | | | | DA | | | R | | | | | | | | | |
| CMGT 340 | Principles of Statics | | | | | | | | | | | | | | | | | | | I | |
| CMGT 345 | Mechanics of Materials | | | | | | | | | | | | | | | | | | | DA | |
| CMGT 352 | * Electrical Construction Estimating | | | | | | | | | | | | | | | | | | | | |
| CMGT 360 | Construction Project Management | R | R | DA | | | R | | | R | | | DA | R | | | | R | | | |
| CMGT 380 | * Green Building Practices and LEED Certification | | | | | | | | | | | | | | | | | | | | |
| CMGT 440 | Temporary Structures | | | | | | | | | | | | | | | | | | | R | |
| CMGT 450 | Construction (Building) Estimating | | | | DA | | DA | | | | R | | | R | R | | | | | | |
| CMGT 455 | Construction Cost Management | R | | | | | | | | | | | | | DA | DA | DA | | | | |
| CMGT 457 | Project Control and Scheduling | | | | | DA | | DA | | | DA | | | R | | | R | | | | |
| CMGT 458 | Heavy Construction Estimating | | | | DA | | | | R | | R | R | | R | R | | | | | | |
| CMGT 460 | Legal Aspects of Construction | DA | | | | | DA | | | | | | | DA | | | | R | | | |
| CMGT 462 | Construction Contracts | R | | | | | R | | | | | | | | | | | DA | | | |
| | Graduating Senior Survey | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA |

| Survey's performed every 2-3 years | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | Alumni Survey | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA |
| | Employers Survey | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA | IA |

* = CMGT Elective Course I = Introduced R = Reinforced DA = Direct Assessment IA = Indirect Assessment

Upon graduation from an accredited ACCE 4-year program a graduate shall be able to:

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| SLO 1 | Create written communications appropriate to the construction discipline. | SLO 12 | Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process. |
| SLO 2 | Create oral presentations appropriate to the construction discipline. | SLO 13 | Understand construction risk management. |
| SLO 3 | Create a construction project safety plan. | SLO 14 | Understand construction accounting and cost control. |
| SLO 4 | Create construction project cost estimates. | SLO 15 | Understand construction quality assurance and control. |
| SLO 5 | Create construction project schedules. | SLO 16 | Understand construction project control processes. |
| SLO 6 | Analyze professional decisions based on ethical principles. | SLO 17 | Understand the legal implications of contract, common, and regulatory law to manage a construction project. |
| SLO 7 | Analyze construction documents for planning and management of construction processes. | SLO 18 | Understand the basic principles of sustainable construction. |
| SLO 8 | Analyze methods, materials, and equipment used to construct projects. | SLO 19 | Understand the basic principles of structural behavior. |
| SLO 9 | Apply construction management skills as an effective member of a multi-disciplinary team. | SLO 20 | Understand the basic principles of mechanical, electrical and plumbing systems. |
| SLO 10 | Apply electronic-based technology to manage the construction process. | | |
| SLO 11 | Apply basic surveying techniques for construction layout and control. | | |