

Vecellio Construction Engineering and Management Program
2025-2026 MSCE in CEM Course Requirements Check Sheet

| | | | | | | Credit Hours | Semester Offered | | |
|---|--|---|------|----|---|--|------------------|------|--|
| I - VCEMP Core Courses <i>(15 credit hours required)¹</i> | | | | | | <i>Indicate Semester Taken</i> | | | |
| CEE 5024 | Contract Administration & Claims Resolution | | | | | 3 | F | | |
| CEE 5054 | Project Control of Built Infrastructure | | | | | 3 | S | | |
| CEE 5060 | Built Environment Information Modeling & Processes | | | | | 3 | F | | |
| CEE 5080 | Infrastructure Asset Management | | | | | 3 | S | | |
| CEE 5984 | Topics in Advanced Construction Technologies | | | | | 3 | S | | |
| CNST 5074 | Construction Professional Competencies ² | | | | | 3 | F | | |
| CNST 5114 | Leadership in Arch/Engineer/Const | | | | | 3 | F | | |
| II - Track-Specific Requirements | | | | | | | | | |
| Non-Thesis Track <i>(0 or 3 credit hours required)</i> | | | | OR | Thesis Track <i>(10 credit hours required)</i> | | | | |
| CEE 5904 | Project and Report ³ | 3 | F, S | | CNST 5084 | Methods in Const Research ⁴ | 3 | S | |
| | | | | | CNST 5424 | Construction Research Present ⁵ | 1 | F, S | |
| | | | | | CEE 5994 | Research and Thesis | 6 | F, S | |
| III - CEE Directed Electives <i>(Minimum 6 credit hours)</i> | | | | | | <i>Indicate Semester Taken</i> | | | |
| CEE 5014 | Facility Delivery & Financing Strategies | | | | | 3 | S | | |
| CEE 5020 | Infrastructure Policy | | | | | 3 | S | | |
| CEE 5034 | Smart Sustainable Infrastructure | | | | | 3 | S | | |
| CEE 5064 | Construction Project Dynamics | | | | | 3 | Not Offered | | |
| CEE 5074 | Global Virtual Design & Construction | | | | | 3 | S | | |
| CEE 5084 | Information Technology in Infrastructure | | | | | 3 | F | | |
| CEE 5974 | Independent Study ⁶ | | | | | 1-3 | F, S | | |
| IV - General Electives <i>(Minimum 0 credit hours required)</i> | | | | | | <i>Indicate Semester Taken</i> | | | |
| CEE 4014 | Estimating, Productivity and Cost Engineering ⁷ | | | | | 3 | F, S | | |
| CEE 4024 | Construction Control Techniques ⁷ | | | | | 3 | F | | |
| CEE 4074 | Construction Means & Methods ⁷ | | | | | 3 | F, S | | |
| CEE 5004 | Adaptive Reuse and Redevelopment | | | | | 3 | Not Offered | | |
| CNST 5214 | Construction Company Management | | | | | 3 | S | | |
| <i>Any 4000 or 5000 courses in the areas of Construction, Engineering, Business or Policy approved by advisor</i> | | | | | | 3+ | F, S | | |
| V - Required Supporting Courses <i>(Required for graduation; taken P/F)</i> | | | | | | | | | |
| CEE 5944 | Seminar: Construction | | | | | 1 | F | | |
| ENGE 5304 | Graduate Student Success in Multicultural Environments | | | | | 1 | F, S | | |

¹ Students without a sufficient background in CEM fundamentals may be required to take background supporting courses.

² Fall entrants should enroll in first semester, spring entrants should enroll in second semester.

³ Not required for coursework-only exit option; enroll for 3 credits for P&R exit option.

⁴ Thesis students must take CNST 5084 or an approved substitute.

⁵ Pass/Fail option only, taken in final semester.

⁶ Approval of supervising faculty required; must submit independent study form in accordance with departmental policy.

⁷ Approval of supervising faculty required; student will need to request a force-add.

A PLAN OF STUDY must be submitted before completion of 15 hours of graduate coursework. Class waivers or variations from the Course Requirements must be approved by the Program