

**Vecellio Construction Engineering Management Program**  
Via Department of Civil and Environmental Engineering  
**2018-2019 MS-CEE Course Requirements Checklist**

							Credit Hours	Semester Offered
<b>I - VCEMP Common Core</b> <i>(Minimum 6 credit hours, Maximum 9 credit hours)</i>								
CNST 5074	Construction Professional Competencies						3	F
CNST 5114	Leadership in Arch/Engineer/Const						3	F
CEE 4024	Construction Control Techniques <sup>1,7</sup>						3	F
<b>II - Track-Specific Requirements</b>								
<b>Non-Thesis Track</b> <i>(3-6 credit hours required)</i>				OR	<b>Thesis Track</b> <i>(10 credit hours required)</i>			
CNST 5214	Construction Company Mgmt	3	S		CNST 5084	Methods in Const Research <sup>2</sup>	3	S
CEE 5904	Project and Report <sup>4</sup>	3	F, S		CNST 5424	Construction Research Present <sup>3</sup>	1	F, S
					CEE 5994	Research and Thesis	6	F, S
<b>III - CEE Electives</b> <i>(Minimum 9 credit hours, Maximum 21 credit hours; courses may not be offered every year)</i>								
CEE 5010	Schedule Impact Analysis						3	S
CEE 5014	Facility Delivery & Financing Strategies						3	S
CEE 5024	Contract Administration & Claims Resolution						3	F
CEE 5060	Built Environment Information Modeling and Processing						3	F
CEE 5074	Global Virtual Design & Construction						3	S
CEE 5080	Infrastructure Asset Management						3	S
CEE 5084	Information Technology in Infrastructure						3	F
CEE 5094	CII Best Practices <sup>5</sup>						3	F
CEE 5984	(A) Applied Data Sensing & Mgmt in Built Environment						3	Not offered
CEE 5984	(B) Smart Sustainable Infrastructure						3	F
CEE 5984	(C) Human Behavior and Infrastructure Systems						3	S
CEE 5984	(D) Legal Aspects of Civil Engineering						3	SMR
CEE 5984	(E) Policy Making for Infrastructure						3	F
CEE 5974	Independent Study <sup>6</sup>						1-3	F, S
<b>IV - Other Electives</b> <i>(Minimum 0 credit hours required)</i>								
BC 5024	Construction Cost Management						3	S
BC 5134	Sustainable Facility Systems						3	S
BC 5144	Sustainable Infrastructure Systems						3	F
BC 5314	Applied Building Sciences						3	F
CNST 5984	Wireless Sensing in Construction Management						3	F
<i>Any approved 5000 (or higher) courses in the areas of Construction, Engineering, Business or Policy</i>							3+	F, S

<sup>1</sup> Students without significant industry experience OR undergraduate construction management courses are encouraged to enroll; consult with interim advisor

<sup>2</sup> Thesis students must take CNST 5084 or an approved substitute

<sup>3</sup> Pass/Fail option only, taken in final semester

<sup>4</sup> Not required for coursework-only exit option; enroll for 3 credits for P&R exit option

<sup>5</sup> Required if offered

<sup>6</sup> Approval of supervising faculty required; must submit independent study form in accordance with departmental policy

<sup>7</sup> Only 6 credits of 4000 level course work may count towards degree

**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**