

# 1. REQUIREMENTS FOR THE MS CE DEGREE

Students studying towards the Master of Science in Civil Engineering with an emphasis in construction must complete the following course checklist:

<b>To develop an in depth understanding of the construction process</b>				<b>Min 6</b>
<b>credit hours Max 8 credit hours</b>				
		Cr hrs	Co Requisite	Pre Requisite
CNST 5110	Pre-construction Studio <sup>1</sup>	2	CEE 4014 <sup>5</sup> CEE 4024 <sup>5</sup>	
CNST 5120	Construction Studio <sup>1</sup>	2		CNST 5110
CNST 5130	Facilities Integration Studio <sup>1 6</sup>	2		CNST 5120
CNST 5190	Construction Research Topics and Methods <sup>2</sup>	2	CNST 5110	
<b>To develop an in depth understanding of leadership and its importance in construction</b>				<b>Min 3</b>
<b>credit hours Max 6 credit hours</b>				
CNST 5140	Leadership for AEC <sup>1</sup>	2		
CNST 5144	Integrated Leadership Studio <sup>1</sup>	1		CNST 5140
CEE 5044	Leadership Roles and Responsibilities	3		CNST 5140
<b>To develop skills in business and business administration</b>				<b>Min 0</b>
<b>credit hours Max 9 credit hours</b>				
CNST 5160	Company Management <sup>3 6</sup>	3		CNST 5110
	Any courses in the area approved by advisor			
<b>To develop a depth of knowledge in construction engineering</b>				<b>Min 9</b>
<b>credit hours Max 21 credit hours</b>				
CEE 4014	Estimating, Production and Cost Engineering	3		
CEE 4024	Construction Control Techniques	3		
CEE 4074	Construction, Means and Methods	3		
CEE 5010	Schedule Impact Analysis	3		CEE 4024
CEE 5020	Schedule Visualization	3		CEE 4024
CEE 5024	Contract Administration	3		
CEE5030	Role of the Construction Manager	3		
CEE 5054	Construction Performance Improvement	3		
CEE 5070	Equipment Economics and Applications	3		
CEE 5084	Information Technology in Construction	3		
CEE 5984	CII Best Practices	3		
<b>To develop a breadth of knowledge relevant to construction (See illustrative list)</b>				
<b>Min 0 credit hours Max 6 credit hours</b>				
	Any courses approved by advisor			
<b>To develop skills in independent and creative thought.</b>				<b>One of the following</b>
CEE 5894	Final Exam	0		
CEE 5904	Project and Report	3 <sup>4</sup>		
CEE 5994	Research and Thesis	6 <sup>4</sup>		

<sup>1</sup> Required of all students.

<sup>2</sup> Required of students taking CEE5904 or CEE 5994.

<sup>3</sup> Required of students completing their curriculum by coursework only.

<sup>4</sup> No more than 3 credit hrs of CEE5904 or 6 hrs of CEE5994 can count in the program of studies.

<sup>5</sup> Equivalent courses approved by advisor may be substituted.