**Construction Engineering**

**Non-Thesis/Non-Independent Research Study Option**

**Guidelines for Course Selection**

Every MS/MSE/MSCE student will take a minimum of 30 credits of coursework towards their degree (courses to be included in the Plan of Study) using the courses listed in the following groups.  
  
**Group 1. Required: Four foundational courses - CE 520, CE 521, CE 523, CE 527**

Note: Students who join the graduate program in Civil Engineering at Purdue with the equivalent of one of the four required courses can substitute one of the required courses with any course in Group 2 or Group 3.

CE520- Construction Project Controls

CE521- Construction Business Management

CE523- Selection and Utilization of Construction Equipment

CE527- Analytical Methods for the Design of Construction Operations

**Group 2. A minimum number of three courses from the following prescribed list:**

CE 524 - Legal Aspects in Engineering  
CE 522 - Computer Applications in Construction  
CE 597 - Infrastructure Planning  
CE 597 - Decision Making under Uncertainty  
CE 597 - Geospatial Technologies in Infrastructure Planning and Construction  
CE 597 - Sustainable Building Design, Construction and Operation  
CE 597 - Advanced Modeling and Visualization of Construction Operations  
CE 597 - Virtual Reality Technologies for Construction  
CE 597 - Trenchless Technologies for Infrastructure Renewal

CE 597 - Advanced Project Management

CE 497 - Building Information Modeling

**Group 3. Remainder of the courses from Graduate Offerings in CE, STAT, MATH, IE, NUCL, ME, MGMT, EE, ABE, ENE, CHME, ECON, CS**