DEGREE OF MASTER OF ENGINEERING  
Coursework Requirements for a Major in Construction Engineering  
One Year Program

General
A minimum of 30 semester credit hours of approved courses is required for the Master of Engineering degree (MEng). A complete discussion of all university requirements is found in the current Texas A&M University Graduate Catalog under the heading “The Degree of Master of Engineering.” For example, university requirements include a final examination and one or two written reports. The Zachry Department of Civil Engineering requires that the examination focus on at least one of the written reports. The report(s), however, need not involve results of research conducted by the candidate. It is the student’s responsibility to propose a degree plan that meets all university, department, and program requirements.

Degree Plan
The student’s degree plan must be typed on the official form as it appears on the Internet at http://ogs.tamu.edu/OGS/pdf/plan.pdf and submitted to the construction engineering and management graduate chair with endorsements by the student’s advisory committee. The plan must be submitted before the end of the first (fall) semester of study. The office of graduate studies blocks students from further registration if a degree plan is not filed before the end of the second semester of study.

Prerequisites (cannot apply toward 30 semester credit hour requirement)
All of the following courses are considered prerequisite to any MEng program of study in construction engineering and management including the Master of Engineering with a major in Construction Engineering: CVEN 349, CVEN 405, and CVEN 473, or equivalents that are approved by the construction engineering and management faculty. If the student does not meet these prerequisite requirements, and one or more of these or other leveling courses must be completed, these credits cannot be applied toward the 30-semester credit hour requirement. No 300 level courses may be included in the 30-hour requirement.

Course Requirements
Required – 15 Hours
CVEN 639 Methods Improvement for Construction Engineers
CVEN 643 Advanced Construction Methods and Materials
CVEN 689 Highway Project Development and Project Management (If not available take CVEN 641)
CVEN 689 Temporary Structures (planned for the future – If not available take CVEN 621, CVEN 659, or CVEN 667)
COSC 628 Applications of Construction Law

Electives (Select Five Courses) – 15 Hours
CVEN 615 Structural Design of Pavements
CVEN 621 Advanced Reinforced Concrete Design
CVEN 635 Street and Highway Design
CVEN 638 Computer Integrated Construction Engineering Systems
CVEN 641 Construction Engineering Systems
CVEN 644 Project Risk Management
CVEN 654 Strategic Construction and Engineering Management
CVEN 659 Behavior and Design of Steel Structures
CVEN 667 Slope Stability and Retaining Walls
CVEN 671 Design and Behavior of Prestressed Concrete Structures
OCEN 688 Marine Dredging
COSC 631 Supervision of Construction Workforce or COSC 664 Construction Safety Management (but not both COSC courses)

The elective courses shown above may not be offered in all one-year periods. The student must confirm the availability of these courses when preparing a degree plan. It is recommended that the degree plan be prepared in the first semester of the student’s program. Additional graduate level courses are offered through the department and may be used to satisfy the elective coursework requirement with approval of the student’s advisory committee.

November 11, 2009, Rev 2