DEGREE OF MASTER OF SCIENCE (THESIS)
Coursework Requirements for a Major in Construction Engineering and Management

General
A minimum of 32 semester credit hours of approved courses and research supporting the Thesis is required for the Master of Science degree (MS). The university places limitations on these credit hours in addition to the requirements of the construction engineering and management program that are listed below. 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 Science.” For example, according to university requirements the student must prepare a Thesis proposal for approval by the advisory committee and head of the major department. It is the student’s responsibility to propose a degree plan that meets all university, department, and program requirements.

Degree Plan
The student’s advisory committee (no fewer than three members of the graduate faculty), in consultation with the student, will develop the proposed degree plan. The proposed 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 should be submitted before the student has completed nine (9) of the semester credit hours that will be applied toward the 32-semester credit hour requirement. 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. The degree plan must also conform to the Department’s MS degree requirements (dated April 13, 2001).

Prerequisites (cannot apply toward 32 semester credit hour requirement)
All of the following courses are considered prerequisite to any MS program of study in construction engineering and management: 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 32-semester credit hour requirement. No 300 level courses may be included in the 32-hour requirement.

Construction Engineering and Management Requirements
Required Core Courses (must take all 19 credit hours)
- CVEN 638 Computer Integrated Construction Engineering Systems (Walewski)
- CVEN 639 Methods Improvement for Construction Managers (Reinschmidt)
- CVEN 640 Project Development: Methods and Models (Damnjanovic)
- CVEN 641 Construction Engineering Systems (Anderson)
- CVEN 643 Advanced Construction Methods and Materials
- CVEN 654 Strategic Construction and Engineering Management (Ford)

The student’s advisory committee, in consultation with the student, will select a minimum of 13 additional semester credit hours of coursework to complement the overall objectives of the proposed degree plan.

Additional Coursework (minimum of 13 semester credit hours)
- CEM Courses: CVEN 644 Project Risk Management, CVEN 668 Advanced EPC Project Development, CVEN 689 Special Topics in Project Controls (Ford), CVEN 689 Special Topics in Models for Performance-based Project Delivery Methods, CVEN 689 Highway Project Development and Project Management
- Non-CEM Courses: CVEN 691 Research (up to a maximum of 7 credit hours to support the Thesis)
- CVEN - Any graduate class with the approval of the advisory committee and CEM graduate chair
- STAT 601, 602, 606, 607, 608, 609, 659
- INEN 625, 627, 663, 667
- MGMT 655

Optional Additional Courses (up to a total of 3 hours – replaces three hours of additional coursework listed above)
- COSC 628 or COSC 463 (Summer Session Only and with approval of advisor only)
- ACCT 640, MGKT 621, FINC 635 (requires MGMT 655)

1. If course(s) is (are) not offered during your enrollment period, replacement course(s) must be selected from CEM Courses listed under Additional Coursework – CEM Courses. Student’s committee must approve these courses.