Department of Civil Engineering
Doctor of Engineering (D.Eng.) Degree Requirements
Area of Study: Materials Engineering

The Doctor of Engineering (D.Eng.) degree requires 21 credit hours of professional development coursework, and an internship is required.

This degree program is administered by the College of Engineering through the Department of Civil Engineering. The applicant must first be admitted into the Department's Ph.D. program and then interviewed by the College's Admissions Subcommittee. To enter the D.Eng. program, the applicant must have earned an ABET-accredited bachelor's degree (or equivalent). More information can be found at: http://eapo.tamu.edu/engr/.

NOTE: All documents requiring departmental signatures must be submitted to the Civil Engineering Graduate Office at least one day prior to the Office of Graduate Studies deadline.

In addition to fulfilling the University requirements for the Doctor of Engineering (D.Eng.) degree, a student enrolled in the Civil Engineering graduate program in the area of Materials Engineering must satisfy the following requirements and/or recommendations:

- **Required Coursework**: CVEN 681 Seminar in Materials and 3 of following 4 Courses:
  - CVEN 622 Properties of Concrete
  - CVEN 653 Bituminous Materials
  - CVEN 615 Structural Design of Pavements
  - CVEN 616 Systems Design of Pavements

  *Equivalent coursework from other institutions will be accepted based on approval of advisory committee.

- **Recommended Coursework**: CVEN 624 Infrastructure Engineering
  - CVEN 614 Stabilization of Soil-Aggregate Systems
  - CVEN 637 Rigid Pavement Analysis and Design
  - CVEN 613 Micromechanics of Civil Materials
  - CVEN 689 Aggregates in Civil Engineering
  - STAT 601 Statistical Analysis
  - STAT 602 Statistical Methods of Regression Analysis
  - Relevant CVEN, MEMA, and other Graduate Courses per recommendations of the advisory committee and department requirements

- **Qualifying Exam**: During the first semester of study, an oral Qualifying Examination will be scheduled with members of the Civil Engineering Materials faculty and a Civil Engineering faculty member outside the Materials area. The exam should be taken within the first two semesters of study. At this examination, the student will give a presentation of research work completed for a previous degree and questions can cover material addressed in the required coursework for the Materials area.
• **Degree Plan:** An advisory committee must be formed and a Degree Plan must be submitted and approved by the advisory committee after passing the Qualifying Exam and by the end of the fourth semester of study.

• **Written Preliminary Exam:** After completion of the coursework listed on the Degree Plan (with the exception of ENGR 684 Professional Internship), a Written Preliminary Examination will be scheduled with members of the advisory committee. This exam consists of written questions from the advisory committee. Each question should be given over a period of one day, and the exam in total should be given over a period of one week.

• **Oral Preliminary Exam:** After passing the Written Preliminary Exam, an Oral Preliminary Examination will be scheduled with members of the advisory committee. At this examination, the student will give a presentation of the proposed Internship. The questions in this exam will cover the Written Preliminary Exam, the Oral Preliminary Exam presentation, and any relevant coursework.

• **Completion of Record of Study:** A draft Record of Study must be submitted to the advisory committee chair at least 3 weeks (15 working days) prior to revision and subsequent submittal to other members of advisory committee. These other members of the advisory committee will be provided at least 2 weeks (10 working days) to review the revised draft Record of Study prior to the Final Defense. Thus, the draft Record of Study must be submitted to the advisory committee chair at least 5 weeks (35 working days) prior to the Final Defense.

• **Final Defense:** A Final Defense consisting of an oral examination will be scheduled with all of the advisory committee members. At this examination, the student will give a presentation of the Internship experience completed for the degree and documented in the Record of Study.

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1 All coursework should be discussed with advisory committee chair before enrolling in course. All coursework must be consistent with the student’s chosen field of study and commensurate with graduate study.