

**ChE 4973 The Profession of Chemical Engineering**  
Elective Course for ChE program

**Catalog Description:** A review of fundamental principles of chemical engineering, intended to prepare the student for professional registration.

**Prerequisite:** Permission of instructor.

**Prerequisites by Topic:** Senior standing. Mathematics, Chemistry, Statics, Fluid Mechanics, Thermodynamics, Ethics, and Chemical Engineering

**Recent Textbook:** “Fundamentals of Engineering (FE) Discipline Specific Reference Handbook”, 7<sup>th</sup> Ed., National Council of Examiners for Engineering and Surveying, (2005)

**Other References:** Lindeburg, FE Review Manual”, Professional Publications, 2nd ed. 2006: Newnan “Fundamentals of Engineering” (2004).

**Course Objectives:** To prepare current seniors to pass the Fundamentals of Engineering Examination.

**Major Topics Covered in the Course:** (1) Mathematics; (2) Thermodynamics; (3) Fluid Mechanics; (4) Statics (5) Chemistry; (6) Chemical Engineering.

**Class Schedule:** Twice a week for 1 hour and 15 minutes of lecture for the first 10 weeks of the fall semester (until F.E. exam), plus optional 3-hour session once a week. These 8 optional Saturday morning sessions cover the topics of the General AM and PM exams and are offered separately by the College. Attendance is voluntary but strongly encouraged.

**Professional Component Contribution:** Two (2) hours of Engineering Science/ Design