

# ENGR - ENGINEERING

---

## ENGR 677 Science, Technology, Engineering and Mathematics (STEM) Teaching Professional Development

**Credit 1. 1 Lecture Hour.** Center for Teaching Excellence (CTE) consultation and faculty mentoring in STEM teaching; course topic and syllabus design; learning outcomes and assessment; teaching methodology; reflection on teaching philosophy; reflection on teaching as research. **Prerequisites:** Graduate classification and approval of instructor.

## ENGR 681 Professional Development Seminar

**Credits 0-1. 0-1 Other Hours.** Topics of interest related to the professional practice of engineering.

## ENGR 684 Professional Internship

**Credits 1 to 10. 1 to 10 Other Hours.** Supervised experience of one academic year in industry where students can learn to apply their textbook-based skills to problems in the real-world environment.

**Prerequisites:** Admission to the Doctor of Engineering program and graduate classification.

## ENGR 685 Directed Studies

**Credits 1 to 6. 1 to 6 Other Hours.** Design or research problems executed either individually or as a team. **Prerequisites:** Graduate classification; approval of graduate advisor.

## ENGR 689 Special Topics in...

**Credits 1 to 4. 1 to 4 Other Hours.** Advanced topics of current interest in engineering. May be repeated for credit. **Prerequisites:** Graduate classification in Engineering or approval of instructor.

## ENGR 698 Writing for Publication

**Credits 3. 3 Lecture Hours.** Writing in academic disciplines and settings; writing for different audiences and purposes; style; planning and development of academic journal articles; grant proposals; correspondence; oral presentations; technical reports. **Prerequisite:** Advanced standing in master's/doctoral programs; approval of departmental/college graduate advisor.