ENGR - Engineering

Courses numbered 100 to 299 = lower-division; 300 to 499 = upper-division; 500 to 799 = undergraduate/graduate.

ENGR 101. Introduction to Engineering (3).
Assists engineering students in exploring engineering careers and opportunities. Provides information on academic and life skills essential to become a successful engineering student. Promotes connections to specific engineering majors and provides activities to assist and reinforce the decision to major in engineering. Recommended for all new engineering students. Offered fall and spring.

ENGR 202. Service Learning in Engineering (1).
An intentional and thought-provoking application of classroom learning to active and engaging engineering work by participating in a group project that meets identified community needs. The course is project based, with a report and reflections. The project is identified by the student and could be mentoring or leading a team of students in an engineering service effort.

ENGR 360. Special Topics (1-4).
New or special topics presented on sufficient demand at the undergraduate level. Prerequisite: instructor's consent.

ENGR 482. Fundamentals of Engineering Review (1).
Covers the common subjects of the Fundamental of Engineering (FE) Exam in EE, ME and IME. Covers the mathematics, Engineering Probability and Statistics, Engineering Economy, Engineering Mechanics, and Electricity and Magnetism. Prerequisites: MATH 242, PHYS 314.

ENGR 501. The Engineer as Leader (3).
Develops engineering students for leadership roles soon after graduation. Covers leadership theory, leadership in the context of engineering (both formal and informal) and has several invited speakers. Students complete leadership reflections as well as other assignments. Not for graduate credit. Prerequisite: junior standing.

ENGR 750U. Engineering Education: S3 - Knowledge of Content (Middle and Elementary) (1-3).
Teachers will participate in core training and encounter pedagogical and experiential experience with STEM content being delivered in the classroom. This section is based upon participation in Launch and Gateway training.

ENGR 750V. Engr Ed: S3-Content (Second) (1-3).
Teachers will participate in core training and encounter pedagogical and experiential experience with STEM content being delivered in the classroom. This section is based upon participation in Engineering and Computer Science Pathways.

ENGR 750W. Independent Study (1).
This course will cover the application and reflection on the APB model and EML models in the classroom.