ENGR 001. First-Year Design Experience. 2 Credits.
Introduction to the engineering profession and design. Hands-on experiences that emphasize interdisciplinary teamwork, technical communications, and project design methodologies.

ENGR 002. Graphical Communication. 0 or 2 Credits.
Principles of computer-aided drafting/design; production of engineering drawings including: orthographic, auxiliary, section, pictorials and dimensioning, graphics and charts; applications in specific engineering disciplines.

ENGR 010. D1:Dvrsty Issues:Math/Sci/Egr. 3 Credits.
Diversity in CEMS: under-representation, environmental justice, gender/race participation, ethical considerations, urban planning, equal opportunity, Title IX. Landscape of race/gender in STEM.

ENGR 020. Programming for Engineers. 3 Credits.
Introduction to computer programming principles using MATLAB, with applications chosen from civil, electrical, environmental, and mechanical engineering. Co-requisite: MATH 021. Cross-listed with: CS 020. Credit not given for both CS 016 and CS 020/ENGR 020.

ENGR 095. Special Topics. 0-18 Credits.
See Schedule of Courses for specific titles.

ENGR 101. Engineering Communications. 3 Credits.
Traditional technical and scientific writing forms, including outlines, summaries, abstracts, technical descriptions, research reports/papers and proposals; written and oral technical communication with technical and nontechnical audience; electronic professional portfolio. Prerequisites: ENGS 001; Engineering major.

ENGR 195. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

ENGR 201. Ethics in CEMS Rsrch/Practice. 1 Credit.
Professional responsibilities of computer scientists, engineers, mathematicians and statisticians in research and practice. Professional rights and responsibilities, research integrity, fair credit in research and publication. Prerequisite: Senior/Graduate standing.

ENGR 295. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

ENGR 296. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.