ENGR 0011  INTRODUCTION TO ENGINEERING ANALYSIS  3 cr.

Provides an introduction to the field of engineering (what engineering is and what engineers do) and instruction in problem-solving techniques used by engineers on real-world problems. The primary analytic and graphical tools for the course will be Excel and MatLab. Other course goals include application of basic science and mathematics to engineering problems, development of values and skills for successful work in groups, acquisition of library research skills and practice in written and oral communication.

Corequisite:  MATH 0200.

ENGR 0012  INTRODUCTION TO ENGINEERING COMPUTING  3 cr.

Emphasizes the impact of computing in engineering and the fundamentals of engineering computing from program design to program implementation to program debugging. Instruction will focus on MatLab and the C++ programming language. Applications will be chosen from engineering problems introduced in ENGR 0011. Continued opportunities for developing skills in group work, research and written and oral communication will be provided.

Prerequisite:  ENGR 0011.

ENGR 0081  FRESHMAN ENGINEERING SEMINAR 1  0 cr.

Orientation in the various areas of engineering and related fields of employment. Includes group meetings with departmental representatives and freshman academic advisors.

Prerequisite:  None.

ENGR 0082  FRESHMAN ENGINEERING SEMINAR 2  0 cr.

Orientation in the various areas of engineering and related fields of employment. Includes group meetings with departmental representatives and freshman academic advisors.

Prerequisite:  None.