

ENGG – ENGINEERING

ENGG 100

Success in Engineering

1.1 Credits Weekly (1.5-0-1.5)

This course provides an introduction to the engineering profession, the skills required for academic success, and the fundamentals of leadership. These encompass study and life skills; time management and goal setting; interpersonal skills; career planning; engineering and society including elements of ethics, equity, concepts of sustainable development, environmental stewardship, and public safety. Note: Restricted to Engineering students.

ENGG 130

Engineering Mechanics - Statics

4 Credits Weekly (3-2-0)

Equilibrium of planar systems is presented in this course. The course also provides an introduction to the analysis of statically determinate trusses and frames, explores the concept of friction, and introduces the concept of centroids and centres of gravity. Topics also include forces and moments in beams and second moments of area. NOTE: Restricted to Engineering students.

Prerequisites: Pure Mathematics 30, Mathematics 31, Physics 30.

ENGG 160

Introduction to Engineering Design, Communication, and Profession

2 Credits Weekly (1-2-0)

This course provides an introduction to the engineering design process, graphical communication, and the engineering profession. Concepts of ethics, sustainable design and environmental stewardship and public and worker health and safety are also explored. NOTE: Restricted to Engineering students.

Prerequisites: ENGL 199.