

APPLIED SCIENCE (APSC)

This is a list of the Applied Science (APSC) courses available at KPU.

APSC 1124 **1 Credits**

Introduction to Engineering

Students will learn about the practice of Engineering through a series of seminars and field trips conducted by working engineers. They will cover work done in various engineering fields, focusing on particular industries and/or specific disciplines. Students will participate in seminars on several engineering metaskills and complete a group design project followed by a presentation to the class.

Note: This course is part of the first year engineering transfer program.

Prerequisites: Students must be registered in the Applied Science program.

Co-requisites: It is recommended that this course be taken in conjunction with APSC 1151. It is recommended that this course be taken in conjunction with APSC 1151.

Transferable (refer to transfer guide)

APSC 1151 **3 Credits**

Introduction to Engineering Graphics

Students will study technical sketching, orthographic projection, visualization in three dimensions, and conventions of engineering drawing. They will sketch by hand, and will draw with engineering-graphics software on the computer. Students will apply the principles of descriptive geometry to the solution of space problems.

Prerequisites: MATH 1112 or Principles of Mathematics 12 (with a C) or Pre-calculus 12 (with a C)

Attributes: QUAN

Transferable (refer to transfer guide)

APSC 1299 **3 Credits**

Introduction to Microcontrollers

Students will work with microcontrollers and C language in a lab setting to learn skills such as circuit design, data acquisition, DIO, ADC, and timing. Working in pairs or small groups, students will complete several labs and one project aimed at finding solutions to specified problems. Students will apply programming and debugging skills to make a device perform as intended.

Note: This course is part of the first year Engineering transfer program.

Prerequisites: CPSC 1103

Transferable (refer to transfer guide)