



Pursuit of Excellence: Engineering Pathway

Staff Contact: Ms. Tong

Engineering is a collective term for the application of scientific principles for the design of structures or processes. It has many subspecialties; the largest fields of engineering are civil, electrical, mechanical, and industrial engineering.

Required Coursework:

- Pre-Calculus 11
- Chemistry 11
- Physics 11
- Pre-Calculus 12 (at least 73%)
- Chemistry 12
- Physics 12
- at least 1 AP or college level science or math course

Recommended Coursework:

- Students interested in Biomedical Engineering should take Biology 11 & 12 and consider AP Biology

Project: Postsecondary Research (to be completed by November of your grade 12 year)

- Create a chart comparing the different types of engineering programs. Research three universities that offer the programs that provide the best options for you.

Pathway Exploration/Work Experience: 20 hours per year

Examples:

- job shadowing an engineer
- interviewing current engineering students or recent graduates
- interviewing an engineer
- participating in a Faculty of Engineering information session or student camp

Name: _____

Engineering Pathway Tracking Form

Course	Year and Semester Completed	Grade (%)
● Pre-Calculus 11		
● Chemistry 11		
● Physics 11		
● Pre-Calculus 12 (at least 73%)		
● Chemistry 12		
● Physics 12		
● at least 1 AP or college level science or math course		

Project: Faculty of Engineering Post-Secondary Research (must be completed by November of your grade 12 year)

- Show and discuss your findings with Ms. Tong during an advisor meeting

STAFF ASSESSOR SIGNATURE

Pathway Exploration/Work Experience: 20 hours total

Examples:

- job shadowing an engineer
- interviewing current engineering students or recent graduates
- interviewing an engineer
- participating in a Faculty of Engineering information session or camp

Once you have completed your pathway related activities, log your hours in a Pathway Exploration/Work Experience Form. Fill out one form per activity.