



Building a Foundation  
for a Career in  
**ENGINEERING**

# SUMMIT Engineering PROGRAM

“The Summit Engineering Program encourages collaborating and learning with your peers. We have plenty of freedom to conceptualize, prototype and create our ideas.”

~ Jeffrey Lam

“This program is an excellent way to learn through hands-on and visual applications.”

~ Mark Dubman

“You learn different methods to approaching problems and the steps to take.”

~ Connor Dutra



“I really enjoy teaching this class.

The students are so engaged in solving the problems they are given, and I am constantly challenged by their desire to link their learning in academic subjects to the concrete applications inherent in their projects.

I also truly enjoy watching their profoundly critical and creative thought bear fruit.”

~ **Greg Bernard**

Retired Applied Skills Department Head



Helping  
students set  
and achieve  
higher goals

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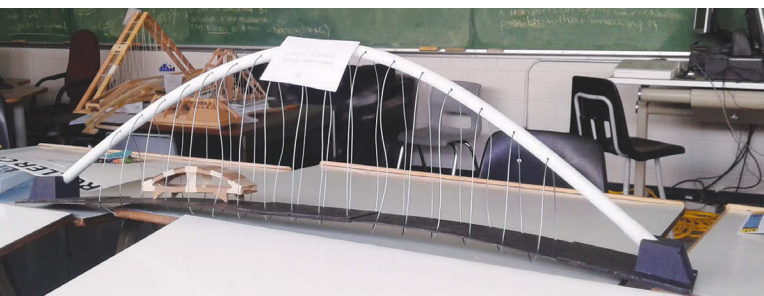
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# SUMMIT

## Engineering

# PROGRAM



There is a lot more to being a successful engineering student than academic skills. Technical writing, public speaking and the ability to work with others are all essential skills that are valued by employers and post-secondary institutions.

### **The Summit Engineering Diploma Program**

at Cariboo Hill Secondary is a three year program designed to prepare students for entry into post-secondary engineering. It offers:

- Enrichment to the regular high school curriculum
- Connections between academic subjects and practical applications
- Problem solving in a collaborative, creative environment
- A strong foundation for entrance to post-secondary engineering

**The Summit Engineering Diploma Program** will give students the opportunity to hone these skills as they document and present their projects. Guest speakers, field experiences and possible mentorships from engineering companies will enrich the program. Students will be able to see the wide range of possibilities an engineering degree can provide.

The following courses are required to complete the Summit Engineering Diploma Program. They are also required for entrance into Engineering programs at UBC, SFU and BCIT, with the exception of the Engineering Projects courses. These courses provide prospective Engineering students the distinct advantage of having practical experience to compliment theory.

### **Grade 10**

- **Foundations & Pre-Calculus Math 10**
- **Engineering Projects 10**

Students take Engineering Projects 10 which applies math and science knowledge to practical applications. The focus is on connecting the theory to its uses in the field of engineering.

### **Grade 11**

- **Pre-Calculus Math 11**
- **Physics 11**
- **Chemistry 11**
- **Engineering Projects 11**

Students continue with the Engineering Projects 11 course and work on more advanced projects as their math and science knowledge base expands.

### **Grade 12**

- **Pre-Calculus Math 12**
- **Physics 12**
- **Chemistry 12**
- **Calculus 12 (recommended)**
- **Engineering Projects 12**

Students will complete a Capstone Engineering Project 12 in their chosen domain.