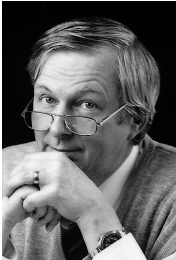


Helping You Prepare for Engineering at TWU

Starting Your Engineering Degree at TWU



Dr. Arnold Sikkema*
*Associate Professor of Physics
Coordinator of Physics
Coordinator of Engineering Transfer
Teaches PHYS 111, 112*



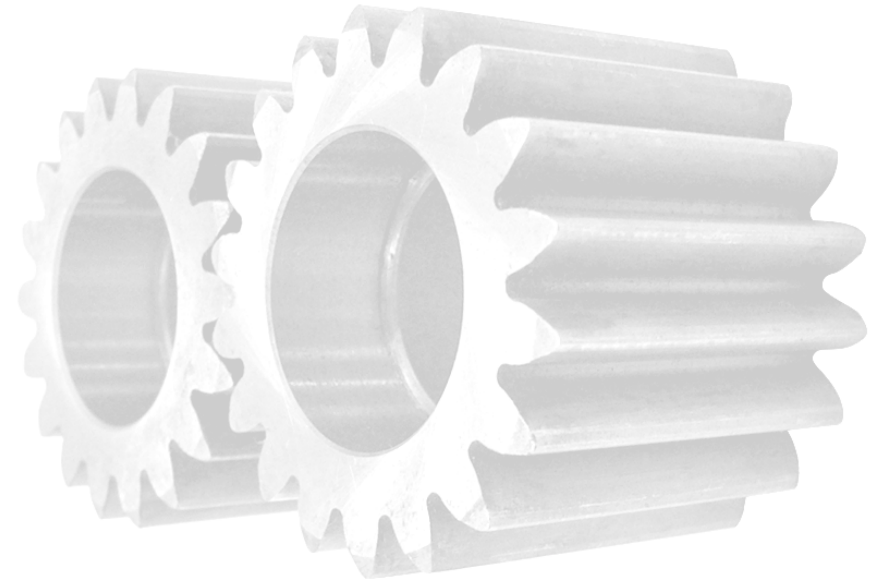
Prof. Rick Sutcliffe
*Professor of Computing Science & Mathematics
Assistant Dean, Faculty of Natural & Applied Sciences
Teaches MATH 123*



Dr. Craig Montgomery
*Professor of Chemistry
Chair, Chemistry Department
Teaches CHEM 111/112*



Dr. Sean Ho
*Assistant Prof. of Computing Science & Mathematics
Teaches CMPT 140*



Get in Gear!

***For more information contact:**

Arnold.Sikkema@twu.ca
604-513-2121 x 3185



7600 Glover Road
Langley, BC V2Y 1Y1

Why Prepare for Engineering at Trinity Western University?

We have all the necessary **first-year science & math** courses, and even some of the second-year courses, with professors who are **experts**, mostly with PhDs. And unlike at UBC or SFU or UVic or elsewhere, these courses are taught in **small classes** and from a **Christian perspective**.



You can take other **TWU core courses** to provide a solid foundation in the Christian liberal arts: Philosophy, History, Religious Studies, Psychology, Business, Communication, and others.

Students will find that many aspects of TWU allow them to uniquely meet many of the “non-scientific” components which are important in the training and life of an engineer.

- Our emphasis on the **liberal arts** includes excellent opportunities for developing students’ **communication skills** which are very important in engineering.
- As a Christian university, we have a calling to be **sensitive to cultural, economic, and social impacts** of our work.
- We explore and develop an **interdependent and multi-faceted creation**.
- We have strong biology and environmental studies programs which are in an excellent position to help faculty and students advance the concepts of **sustainable development and environmental stewardship**.
- Our Christian **morals and ethics** contribute to a solid understanding of the roles and **responsibilities** of the engineer.

Engineering is **part of our mandate** to develop and advance culture through wise and stewardly use of the resources entrusted to us by their and our Creator.

The world needs **insightful, servant leadership** by engineers whose motivations and ideals have been formulated through a critical analysis of the positive and negative cultural effects of technology.

Engineers must seek to develop technological artifacts in ways which acknowledge the fact that the users and beneficiaries are **image-bearers** of the Creator.



Engineering Options at Trinity Western University

1) Apply to First-Year Engineering after one year of TWU science

Students who have completed the following courses at Trinity Western can apply for entry into the first year of the engineering program at UBC:

- MATH 123,124; CHEM 111,112; PHYS 111,112; ENGL 103,104; humanities electives (6 sem. hrs.)

Completion of these courses will reduce the course requirements in the four-year engineering program at UBC.



2) Transfer into the Second Year of an Engineering Program

The three universities in British Columbia offering Engineering programs, namely the University of British Columbia, Simon Fraser University, and the University of Victoria, reserve space in their second year for students who have completed the equivalent of first year engineering at another institution. Requirements vary among these universities; a one or two-year program at Trinity Western can be crafted in consultation with the Coordinator of Engineering Transfer and the destination university.

2a) Spend one year at TWU: For entry into the second year of UBC Engineering, one or more of the following *additional* courses are required, the more the better:

- MATH 250; CMPT 140; CHEM/PHYS 240
- engineering graphics in May/June at Kwantlen, or evenings at UFV
- PHYS 220, or statics & dynamics evenings at UFV, or summer at Langara College

2b) Spend two years at TWU: Several additional courses will strengthen your background and likely help reduce the course load in the final three years of the UBC Engineering program, chosen from the following:

- MATH 223, 310; MATH/PHYS 321; CMPT 480; ECON 201, 202; COMM 310; UFV’s ENGR 122; other science courses relevant to the engineering program of interest; humanities & social sciences elective



UBC requires a GPA of 2.7 for transfer, and will work with students in cases where not all courses have been completed.

more details are available online at
www.twu.ca/academics/science/engineering

“TWU provides valuable preparation for our engineering programs. We welcome students who follow either of the options suggested.”

—Dr. A. Bruce Dunwoody
Associate Dean of Engineering, UBC