



Program Planning Enclosure

Current and past Program Planning Guides are available on the UofL website at www.uleth.ca/ross/ppgs/ppg.html

Calendar Year: 2010/2011

Faculty: Arts & Science (U of L)

Sample Sequencing Plan

Students with an academic objective of Engineering at the University of Alberta must apply to the pre-Engineering program. The sequencing for the two semesters is as follows:

Year 1, Fall	Year 1, Spring
Chemistry 1000	Chemistry 2000
Computer Science 1620	Engineering 2060
Engineering 2000	Mathematics 1410
Mathematics 1560	Mathematics 2560
Elective	Physics 2130

Admission to the University of Alberta

To be in a position to apply to the Faculty of Engineering at the University of Alberta, students must have completed a minimum of 10 courses at the University of Lethbridge. Students must include:

Chemistry 1000 - General Chemistry I
 Chemistry 2000 - General Chemistry II
 Computer Science 1620 - Fundamentals of Programming I
 Engineering 2000 - Engineering Statics
 Engineering 2060 - Engineering Mechanics
 Mathematics 1410 - Elementary Linear Algebra¹
 Mathematics 1560 - Calculus I
 Mathematics 2560 - Calculus II
 Physics 2130 - Waves, Optics and Sound

One of:

Anthropology 1000 - The Anthropological Perspective
 Economics 1010 - Introduction to Microeconomics
 Economics 1012 - Introduction to Macroeconomics
 English 1900 - Introduction to Language and Literature
 History 1000 - Western Civilization
 Linguistics 2300 - Introduction to Linguistics I: Phonetics and Phonology
 Logic 1000 - Critical Thinking
 Logic 2003 - Symbolic Logic I
 Philosophy 1000 - Introduction to Philosophy
 Political Science 1000 - Introduction to Political Science
 Psychology 1000 - Basic Concepts of Psychology
 Sociology 1000 - Introduction to Sociology

¹ MATH 1410 is under review by the University of Alberta; transfer credit is subject to change for Fall 2011 admissions.

Students are expected to complete the required 10 courses in two successive semesters.

Note: Students admitted to the Pre-Engineering program must complete 10 courses as listed above in two consecutive Fall/Spring semesters. If you do not plan to transfer to the University of Alberta after completion of the Spring Semester Year One in the Pre-Engineering program, consult an Advisor before the program change deadline of February 15.

You must be in an appropriate UofL degree program in order to register in courses for the following academic year.

**Application Information
for the Faculty of
Engineering:**

All of the specialized or discipline specific programs start in the second year and each has a limited number of spaces. On an annual basis the Faculty of Engineering reviews the number of spaces in all disciplines and may change the number of spaces in specific degree programs to reflect student demand and the market demand for these disciplines subject to the availability of Faculty resources. Please note that within that number each Engineering specialization has its own quota, so competition may vary.

In addition to the first-year university courses required, applicants are expected to have completed the appropriate secondary school courses: Chemistry 30, English Language Arts 30-1, Pure Mathematics 30 or Mathematics 30, Mathematics 31, and Physics 30.

Application Procedure:

The application and program selection forms must be completed online by **May 1** of the year in which admission is sought. The deadline for receipt of documents is June 15.

Two official transcripts (showing final grades) from all secondary and post-secondary institutions attended must be sent to the Office of the Registrar at the University of Alberta. These transcripts must be sent directly from the issuing institutions.

Admission decisions are usually made by the end of July. All applicants, successful or not, will be notified in writing.

The Faculty of Engineering offers the following specializations: Chemical, Chemical (Process Control Option), Chemical (Biomedical Option), Civil, Civil (Biomedical Option), Civil (Environmental Option), Computer, Computer (Nanoscale System Design Option), Computer (Software Option), Electrical, Electrical (Biomedical Option), Electrical (Nanoengineering Option), Materials, Materials (Biomedical Option), Materials (Nano and Functional Materials Option), Mechanical, Mechanical (Biomedical Option), Mining, Petroleum, Engineering Physics, and Engineering Physics (Nanoengineering Option).

Engineering students can follow the traditional four-year program, or the five-year Co-operative Education program. The academic component is identical, but the Co-op program includes 20 months of paid discipline-related work experience. Students apply to the Co-op program for second-year entry and must have a GPA of at least 2.30 to qualify.

General Information:

Students should consult the Faculty of Engineering if concerned about:

- The pros and cons of repeating a course
- How 'D' grades are treated in the admission GPA
- How Cr/NC and P/F courses are treated
- Applying to Engineering from other degree programs
- Registering in a reduced courseload
- Calculation of program admission factor used in the second year admission process

Students who are interested in Engineering at the University of Alberta are urged to consult with Student Program Services (SU060; tel. 403-329-5106; email: artsci.advising@uleth.ca) and with the Engineering Advisor in the Department of Physics. Direct consultation with the University of Alberta is also encouraged.

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