

## **Non-Science Requirement**

The non-science requirement provides a broad perspective on current scholarship and the diversity of human experience. These courses are also expected to enhance students' critical skills in reading, writing and thinking, and contribute to their preparation for post-university life.

## **BEng Requirements**

### **Complementary Studies Requirement**

A total of 12 credits of complementary studies courses must be taken by Engineering majors as follows:

#### **3 credits must be taken in the humanities or social sciences, defined by the following areas:**

Anthropology, Communications, Disaster and Emergency Management, Humanities, Human Rights and Equity Studies, English, English as a Second Language, History, Linguistics and Language courses (e.g. American Sign Language, Arabic, Chinese, Classical Greek, Hebrew, Hindu-Urdu, Jamaican-Creole, French, German, Italian, Hindi, Japanese, Korean, Latin, Modern Greek, Persian, Portuguese, Spanish, Swahili), Philosophy, Social Science, Modes of Reasoning, Women's Studies, and Writing courses.

#### **9 additional credits chosen from the humanities, social sciences (as defined above), or any additional complementary studies courses:**

- [AP/ADMS 1000 3.00](#) Introduction to Business
- [AP/ADMS 1010 3.00](#) Exploring the Functions of Business
- [AP/ECON 1000 3.00](#) Introduction to Microeconomics
- [AP/ECON 1010 3.00](#) Introduction to Macroeconomics
- [AP/HUMA 3226 3.00](#) Visual Cultures and the Natural World\*
- [AP/LLS 1000 6.00](#) Language and Learning Seminar
- [AP/PPAS 2110 3.00](#) Canadian Government
- [AP/PPAS 2200 3.00](#) Communities and Public Law
- [AP/PPAS 3000 3.00](#) Politics, Policy and the Law of Minority Rights
- [AP/PPAS 3120 3.00](#) Science Technology and Public Policy
- [AP/PPAS 3122 3.00](#) Science Policy in Context
- [AP/PPAS 3135 3.00](#) Public Law I: The Constitution and the Courts in Canada
- [AP/PPAS 3136 3.00](#) Public Law II: The Charter of Rights and Freedoms and Limits of Public
- [AP/PPAS 3190 6.00](#) Public Administration
- [AP/SOCI 1010 6.00](#) Introduction to Sociology
- [EU/ENVS 3122 3.00](#) Create, Curate, Critique: Environmental Arts Workshop
- [EU/ENVS 3130 3.00](#) Energy and Environment in Canada

- [EU/ENVS 3150 3.00](#) Human Animal Studies
- [EU/ENVS 3151 3.00](#) Environmental Politics and Advocacy
- [EU/ENVS 3160 3.00](#) Race/Racism and Environmental Justice
- [EU/ENVS 3170 3.00](#) Indigenous Environmental Thought
- [EU/ENVS 3222 3.00](#) Urban and Regional Infrastructures: A Critical Introduction
- [EU/ENVS 3226 3.00](#) Sustainable Urbanism: Environmental Planning and Design
- [EU/ENVS 3230 3.00](#) Urban Habitats and Restoration Ecology
- [EU/ENVS 3320 3.00](#) Sex, Gender, Nature: Ecofeminist Perspectives
- [EU/ENVS 3340 3.00](#) Global Environmental Politics
- [EU/ENVS 3410 3.00](#) Environmental Policy I
- [EU/ENVS 3420 3.00](#) Environmental Law
- [EU/ENVS 3430 3.00](#) Environmental Assessment
- [EU/ENVS 3505 3.00](#) Business and Sustainability
- [EU/ENVS 3520 3.00](#) Introduction to Geographic Information Systems in Environmental Studies
- [EU/ENVS 3740 3.00](#) Urban Ecology
- [EU/ENVS 4011 3.00](#) Food, Land and Culture
- [EU/ENVS 4140 3.00](#) Nature and Culture: Environmental Thought
- [EU/ENVS 4161 3.00](#) Social Movements, Activism and Social Change
- [EU/ENVS 4210 3.00](#) Global Populations: Critical Environmental Perspectives
- [EU/ENVS 4220 3.00](#) Urbanization in the Global South
- [EU/ENVS 4225 3.00](#) Designing Sustainable Cities
- [EU/ENVS 4230 3.00](#) Design for Sustainability in the Built Environment
- [EU/ENVS 4400 3.00](#) Principles of renewable energy: theory, policy and practice
- [EU/ENVS 4401 3.00](#) Fundamentals of Energy Efficiency
- [EU/ENVS 4402 3.00](#) Climate Change Mitigation ([EU/ENVS 3130 3.00](#) recommended prerequisite)
- [EU/ENVS 4420 3.00](#) Environment Online
- [EU/ENVS 4430 3.00](#) Impact Assessment Processes and Practice ([EU/ENVS 3430 3.00](#) prerequisite)
- [EU/ENVS 4440 3.00](#) Environmental Disasters
- [EU/ENVS 4442 3.00](#) Environmental Auditing
- [EU/ENVS 4446 3.00](#) Protected Area Management
- [EU/ENVS 4520 3.00](#) Geographic Information Systems Applications in Environmental Studies
- [EU/ENVS 4523 3.00](#) Systems Thinking: How everything is connected to everything else, and what to do about it
- [EU/ENVS 4800Q 3.00](#) Land and Urban Development
- [FA/ARTH 1900 3.00](#) Art in the City
- [FA/DANC 1340 3.00](#) Dance Studies: An Introduction
- [FA/DANC 1900 3.00](#) Dance, Film, and Culture
- [FA/DANC 2340 3.00](#) Dance History: 20th Century and Later
- [FA/DATT 1900 3.00](#) Art Science: At the Intersection of Arts and Science
- [FA/FILM 1401 6.00](#) Introduction to Film (for Non-Majors)
- [FA/FILM 1701 3.00](#) Hollywood: Old and New

- [FA/FILM 1900 3.00](#) Cinema and the City
- [FA/FILM 2401 6.00](#) Film, Television and Society
- [FA/MUSI 1500 6.00](#) The Music of Bollywood Films
- [FA/MUSI 1510 6.00](#) The Musical Experience
- [FA/MUSI 1520 6.00](#) Rhythm and Blues, Soul, Funk and Rap
- [FA/MUSI 1530 6.00](#) Rock and Popular Music
- [FA/MUSI 1540 6.00](#) World Music and Global Sounds
- [FA/MUSI 1550 6.00](#) Latin and Caribbean Popular Music
- [FA/MUSI 1556 3.00](#) Gospel Choir
- [FA/MUSI 1580 6.00](#) Women and Popular Music
- [FA/MUSI 1900 3.00](#) Music in the City
- [FA/MUSI 2520 6.00](#) Contemporary Black Urban Music
- [FA/THEA 1500 6.00](#) Aspects of Theatre
- [FA/THEA 1520 3.00](#) Acting for Non-Majors
- [FA/THEA 1900 3.00](#) Sex, Drugs, and Theatre
- [FA/THEA 2060 3.00](#) Voice and Speech I
- [FA/YSDN 1900 3.00](#) Design and Contemporary Culture
- [HH/PSYC 1010 6.00](#) Introduction to Psychology
- [LE/TECL 1000 3.00](#) Disruptive Technology Innovation & Entrepreneurship
- [LE/TECL 3033 3.00](#) International Entrepreneurial Engineering Immersion
- [LW/LAW 3040X 3.00](#) Comparative Law: Privacy & Access to Information
- [SB/ENTR 3400 3.00](#) Business Essentials for Technology Entrepreneurs I
- [SB/ENTR 3600 3.00](#) Business Essentials for Technology Entrepreneurs II
- [SB/ENTR 4500 3.00](#) Entrepreneurship and Technology Ventures
- [SC/BC 3010 3.00](#) Advanced Peer Leadership
- [SC/STS 2110 3.00](#) Truth, Theory and Superstition\*
- [SC/STS 2210 3.00](#) Technology in the Modern World
- [SC/STS 3170 3.00](#) Philosophy of Science\*
- [SC/STS 3500 3.00](#) The Global Information Society
- [SC/STS 3561 3.00](#) From the Abacus to Artificial Intelligence: how the computer came to be\*
- [SC/STS 3600 3.00](#) Technological Failure
- [SC/STS 3725 3.00](#) Science and Exploration\*
- [SC/STS 3726 3.00](#) Technology, Experts and Society
- [SC/STS 3765 3.00](#) Natures of Experiment
- [SC/STS 3790 3.00](#) Science and Technology Issues in Global Development

### **Restrictions & Notes**

- The following course(s) contain a substantial overlap in content with engineering core material and hence may not be taken for degree credit by BEng degree candidates: [AP/PHIL 2100 3.00](#) Introduction to Logic.
- No more than 6.00 credits may be taken at the 1000-level.

- Quantitative courses focusing on techniques of mathematics or statistics cannot count as complementary studies courses such as MODR 1650 6.00 Modes of Mathematical Reasoning.
- Courses within the Humanities and Social Sciences which are cross listed with the Faculty of Science (SC) cannot count towards the HUMA/SOSC component of the complementary studies requirement (with the exception of the asterisked \* courses above).

Note: Many 3000-level courses are eligible for complementary studies credit, but students must have the required prerequisites and be confident of their ability to handle course work in that subject area.

**Source:** <https://calendars.students.yorku.ca/>