UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

Cross-Disciplinary Programs Office

Request to enrol in the Bioengineering Minor

To enrol, please complete the information on both sides of the form and return to the address, below.

Personal Information

First Last
Name of Student

Student Number

Email Address

Current Year of Study

Degree Program (& Major if EngSci)

Date

Student Signature

UTOR ID (If you would like to be added to the Blackboard Community)

We will use Blackboard to provide important information and updates about Minor courses and extra-curricular activities that may be of interest for this Minor.

Requirements

Completion of a minor is subject to the following constraints:

1. Students must ensure they meet the requirements of their chosen Engineering-degree program or Major.
2. Of the 6 (half year) courses required for the Minor, one (half year) course can also be a core course in a student's Program or Major.
3. Either a Thesis or Design course can count for up to two (half year) electives towards the 4 elective courses if the Thesis or Design topic is strongly related to the subject area of the Minor. This requires approval of the Director of the Minor.
4. Availability of the courses to complete an Engineering Minor (including the foundational courses) for timetabling purposes is not guaranteed; the onus is on the student to ensure compatibility with their timetable.
5. Students must secure approval from their home Department before selecting any elective outside their home Department.
6. Students are only allowed to count **one** core (non-elective) course from their program toward the Minor.

Note About Privacy

The University of Toronto respects your privacy. Personal information that you provide to the University is collected pursuant to section 2(14) of the University of Toronto Act, 1971. It is collected for the purpose of administering admissions, registration, academic programs, university-related student activities, activities of student societies, safety, financial assistance and awards, graduation and university advancement, and reporting to government. The University is also required to report student-level enrolment-related data to the Ministry of Advanced Education and Skills Development as a condition of its receipt of operating grant funding. The Ministry collects this enrolment data, which includes limited personal information such as Ontario Education Numbers, student characteristics and educational outcomes, in order to administer government postsecondary funding, policies and programs, including planning, evaluation and monitoring activities. At all times it will be protected in accordance with the Freedom of Information and Protection of Privacy Act. If you have questions, please refer to www.utoronto.ca/privacy or contact the University Freedom of Information and Protection of Privacy Coordinator at McMurrich Building, room 104, 12 Queen's Park Crescent West, Toronto, ON, M5S 1S8.

If you have any questions about the program or this enrolment form, please contact:

Sharon Brown
Assistant Director
Cross-Disciplinary Programs Office
44 St. George Street
Telephone: 416-978-3532
Email: cdp@ecf.utoronto.ca

Course Selection

For the Bioengineering Minor, please indicate the courses you propose to take and which year you propose to take them. You are not required to take your courses in a particular order, unless required for prerequisites.

This information is merely for our planning purposes and does not in any way commit you to taking a particular course, nor does it guarantee your placement in the course or that your course plan will be approved by your home Department or the Director of the Minor.

Notes

Courses in italics are for Engineering Science students only. Students in the Biomedical Systems Option for Engineering Science are not eligible for this minor.

Credit #1: Mandatory.

Course	Course Code	Already Taken	2018–2019	2019–2020	2020–2021
Engineering Biology (*BME205S for EngSci*)	CHE353F	☐	☐	☐	☐

Credit #2: Choose one. At least one is required. If you take both, one of the courses can be counted as an elective below.

Course	Course Code	Already Taken	2018–2019	2019–2020	2020–2021
Cellular and Molecular Biology (*BME395F for EngSci*)	CHE354S	☐	☐	☐	☐
Physiological Control Systems (*BME350F for EngSci*)	MIE331S	☐	☐	☐	☐

Credits #3–6: Choose four. Two courses must be at an advanced level (Introductory = I, Advanced = A).

* You may count either HPS318 or HPS319 towards your minor, but not both.

Course	Course Code	Level	Already Taken	2018–2019	2019–2020	2020–2021
Biomedical Systems Engineering I: Organ Systems	*BME350F*	*I*	☐	☐	☐	☐
Patents in Biology and Medical Devices	BME330S	I	☐	☐	☐	☐
Biomedical Engineering Technology & Investigation	BME440F	I	☐	☐	☐	☐
Water & Wastewater Treatment Processes	CIV342F	I	☐	☐	☐	☐
Discovering Wood & Its Role in Societal Development (HSS)*	FOR308F	I	☐	☐	☐	☐
History of Medicine I (HSS)*	HPS318F	I	☐	☐	☐	☐
History of Medicine II (HSS)*	HPS319S	I	☐	☐	☐	☐
Introduction to Genes, Genetics & Biotechnology	HMB201S	I	☐	☐	☐	☐
General & Human Genetics	HMB265F	I	☐	☐	☐	☐
Psychology for Engineers	MIE242F	I	☐	☐	☐	☐
Physiological Control Systems	MIE331S	I	☐	☐	☐	☐
Industrial Ergonomics & the Workplace	MIE343F	I	☐	☐	☐	☐
Biomechanics I	MIE439S	I	☐	☐	☐	☐
Biomaterials	MSE343F	I	☐	☐	☐	☐
Introduction to Pharmacology & Pharmacokinetic Principles	PCL201S	I	☐	☐	☐	☐
Bioethics (HSS)	PHL281S	I	☐	☐	☐	☐
Human Physiology I	PSL300F	I	☐	☐	☐	☐
Computational Systems Biology	BCB420S	A	☐	☐	☐	☐
Bioinformatics	BCH441F	A	☐	☐	☐	☐
Biomedical Systems Engineering II: Cells & Tissues	*BME395F*	*A*	☐	☐	☐	☐
Human Whole Body Mechanics	BME430S	A	☐	☐	☐	☐
Biostatistics	BME435S	A	☐	☐	☐	☐
Cellular & Molecular Bioengineering II	BME455F	A	☐	☐	☐	☐
Medical Imaging	BME595S	A	☐	☐	☐	☐
Cellular & Molecular Biology	CHE354S	A	☐	☐	☐	☐
Chemical Engineering in Human Health	CHE416S	A	☐	☐	☐	☐
Food Engineering	CHE462S	A	☐	☐	☐	☐
Bioprocess Technology and Design	CHE450F	A	☐	☐	☐	☐
Modeling in Biological and Chemical Systems	CHE471S	A	☐	☐	☐	☐
Biocomposites: Mechanics and Bioinspiration	CHE475S	A	☐	☐	☐	☐
Pulp & Paper Processes	CHE564S	A	☐	☐	☐	☐
Organic Materials Chemistry	CHM446S	A	☐	☐	☐	☐
Environmental Biotechnology	CIV541F	A	☐	☐	☐	☐
Neural Bioelectricity	ECE445F	A	☐	☐	☐	☐
Sensory Communication	ECE446F	A	☐	☐	☐	☐
Biocomputation	ECE448S	A	☐	☐	☐	☐
Green Urban Infrastructure: Sustainable City Forests	FOR421F	A	☐	☐	☐	☐
Innovation and Manufacturing of Sustainable Materials	FOR424S	A	☐	☐	☐	☐
Bioengineering & Biorefinery Technology	FOR425S	A	☐	☐	☐	☐
The Immune System & Infectious Disease	IMM250F/S	A	☐	☐	☐	☐
Microbiology I: Bacteria	MGY377F	A	☐	☐	☐	☐
Fluids of Biological Systems	MIE508F	A	☐	☐	☐	☐
Engineering Psychology & Human Performance	MIE523F	A	☐	☐	☐	☐
Biotransport Phenomena	MIE520F	A	☐	☐	☐	☐
Healthcare Systems	MIE561S	A	☐	☐	☐	☐
Biomaterial Processing & Properties	MSE440F	A	☐	☐	☐	☐
Pharmacodynamic Principles	PCL302F	A	☐	☐	☐	☐
Departmental Thesis or Design Course (counts for 1(H) or 2(Y) credits)						