



Request to enrol in the Nanoengineering Minor

To enrol, please complete the information on both sides of the form and e-mail the completed form to engineering.minors@utoronto.ca.

Personal Information

Given Name

Name of Student

Family Name

Student Number

Current Year of Study

Date

Email Address

Degree Program (& Major if EngSci)

Student Signature

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

We will use Quercus 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 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:

Cross-Disciplinary Programs Office
44 St. George Street
Email: engineering.minors@utoronto.ca

Course Selection

For the Nanoengineering 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.

Credit #1 Mandatory.

Course	Course Code	Already Taken	2021–2022	2022–2023	2023–2024
Structure and Characterization of Materials	MSE219F				

Credit #2 Mandatory.

Course	Course Code	Already Taken	2021–2022	2022–2023	2023–2024
Departmental Thesis or Capstone Design course related to Nanoengineering*					

Credits #3–6: Choose three or four (if project is 0.5 credit). Two courses must be at an advanced level (Introductory = I, Advanced = A).

Course	Course Code	Level	Already Taken	2021–2022	2022–2023	2023–2024
<i>Biomedical Engineering and Omics Technologies</i>	<i>BME346S</i>	<i>I</i>				
Quantum and Semiconductor Physics	ECE330S	I				
Introduction to Electronic Devices	ECE335F	I				
<i>Semiconductor Electronic Devices</i>	<i>ECE350S</i>	<i>I</i>				
<i>Atoms, Molecules and Solids</i>	<i>PHY358S</i>	<i>I</i>				
Biomedical Engineering Technology and Investigation	BME440F	A				
Biocomposites: Mechanics and Bioinspiration	CHE475S	A				
Applied Chemistry IV - Applied Polymer Chemistry, Science and Engineering	CHE562F	A				
Introduction to Inorganic and Polymer Materials Chemistry	CHM325S	A				
Modern Physical Chemistry	CHM328S	A				
Intermediate Inorganic Chemistry	CHM338F	A				
Photonic Devices	ECE427F	A				
Innovation and Manufacturing of Sustainable Materials	FOR424S	A				
Electronic Materials	MSE430F	A				
Composite Materials Engineering	MSE443S	A				
Computational Materials	MSE438F	A				
Synthesis of Nano Structured Materials	MSE459F	A				
<i>Materials Physics II</i>	<i>MSE462S</i>	<i>A</i>				
Advanced Physical Properties of Structural Nanomaterials	MSE451S	A				
Nanotechnology in Alternate Energy Systems	MSE458S	A				
MEMS Design and Microfabrication	MIE506S	A				
Fuel Cell Systems	MIE517S	A				
<i>Advanced Physics Laboratory</i>	<i>PHY427F/S</i>	<i>A</i>				
<i>Relativistic Electrodynamics</i>	<i>PHY450S</i>	<i>A</i>				
<i>Statistical Mechanics</i>	<i>PHY452S</i>	<i>A</i>				
<i>Quantum Mechanics II</i>	<i>PHY456F</i>	<i>A</i>				
<i>Laser Physics</i>	<i>PHY485F</i>	<i>A</i>				
<i>Condensed Matter Physics</i>	<i>PHY487F</i>	<i>A</i>				
Departmental Thesis or Design Course						

Notes Courses in *italics* are Engineering Science courses.

*Thesis and capstone project topics must be approved by the Director of the Nanoengineering Minor at the start of the project. Please contact the Cross-Disciplinary Programs Office for the approval form.

Thesis and capstone projects are not subject to the core course limit.

If the project course is 1.0 FCE weight (a Y course), three electives will be required. If the project course is only 0.5 FCE weight (an H course), students will require four electives.