



Exchange Opportunity for U of T Electrical & Computer Engineering Students at National Tsing Hua University (NTHU), Taiwan

One of Dean Chris Yip’s strategic goals is to give every undergraduate engineering student an international experience during their time at U of T. This could be in the form of a research internship, a PEY Co-op placement, or an academic exchange.

This document summarizes an exciting, new opportunity for Electrical & Computer Engineering students to go on an academic exchange at [NTHU](#) in Taiwan. The idea is for students to go on exchange in the Winter Semester of their third year (3S). This would enable interested students to remain in Taiwan following their exchange for a research internship and/or a PEY Co-op internship before returning to U of T for their fourth year.

NTHU is offering a certificate for exchange students to participate in their **Semiconductor Engineering with Taiwan Innovations (SETI) program** that showcases their strengths in semiconductor technology. The SETI program is designed “to equip students with knowledge of Taiwan’s advancements in semiconductor and engineering industries while fostering a comprehensive perspective on its society, economic development, and global influence”. Upon successful completion, students may apply to NTHU for a certificate of completion.

Certificate Requirements

Students must complete at least five courses from two designated modules, totaling more than 15 credits. At least three courses must be from the Semiconductor Technology and Engineering module and at least two courses must be taken from the Liberal Arts, Politics, Economics, and Language module.

How Best to Prepare for the Exchange Opportunity

In order to be well prepared for this exchange opportunity, the Department strongly recommends that students take the following kernel courses in 3F:

ECE335: Introduction to Electronic Devices

And at least one of:

ECE331: Analog Electronics

ECE334: Digital Electronics

SETI Course Selection

All courses in the SETI program are found in the attached spreadsheet (this list represents the courses offered in 2025-26).

The Department has reviewed this list and is recommending that students choose their three technical courses from the list below that has been curated from the Semiconductor Technology and Engineering module:

Semiconductor Nanolithography (Photonics Technologies)

Analysis and Design of Microwave Circuits (Electronics Engineering)

Nanotechnology and its applications (Power Mechanical Engineering)

Micro and Nano Fabrication Technology (Power Mechanical Engineering)

Opto Electronics (Power Mechanical Engineering)

Silicone Processing Technology for Microelectronics (Electronics Engineering)

Information about each course may be found by going to the NTHU Curriculum website using this [link](#). Start by setting the semester as **2026-Spring**. Choose the course offering department in the first drop-down menu as shown in brackets following each course listed above. Then, key in the 3-digit number and hit Enter. This will display a spreadsheet that contains the courses being offered by this particular course offering department in the 2026 Spring Semester. Use ctrl F to search for the course title. A link to the syllabus for the course may be found on the righthand side.

Students wishing to take **Analysis and Design of Microwave Circuits** as one of their three technical courses are strongly advised to take the kernel course **ECE320: Fields and Waves** in 3F.

Students wishing to take **Opto Electronics** as one of their three technical courses are strongly advised to take the kernel course **ECE318: Fundamentals of Optics** in 3F.

Students will also select at least two courses from the Liberal Arts, Politics, Economics, and Language module.

Guidance on selection of these courses and final approval will be provided by your Associate Chair, Undergraduate.

U of T's Centre for International Experience ([CIE](#)) is the office at the University that supports students going on academic exchange. The application deadline for second year ECE students wishing to go on exchange in the Spring Semester of 2027 is **April 8, 2026**.

Frequently Asked Questions (FAQ)

1. Do I have to take at least 5 total courses to be eligible for exchange at NTHU?

Exchange students must enroll in **at least one course** to maintain their visa status. As outlined above, students must complete at least five courses from two designated modules, totaling more than 15 credits, to earn the certificate. Five courses during the Spring Semester at NTHU is consistent with the usual workload for a semester in the ECE program. If a student takes less than 5 total courses on exchange, they will still need to complete the required number of courses to complete the ECE program at U of T, which means some additional workload upon return to U of T ECE.

2. What happens to my academic record when I go on exchange?

When a student goes on exchange, their courses will be reported on their transcript as transfer credits. The grades themselves are not recorded on their U of T transcript, so there is no impact on

their GPA at U of T. The exchange information is also listed so that it is clear that the student was on a formal international exchange. If a student was to fail one of the five courses, it would not be recorded on their U of T transcript because no credit was earned, but they would not be eligible for the certificate. However, they would still receive credit for the courses that they successfully completed while on exchange. The student would need to make up any missing courses once they return to U of T to ensure that they can graduate on time.

3. Are there any technical courses I can take at NTHU that could be eligible as a kernel course or as a technical elective transfer credit?

The Department went through NTHU's SETI course list and has identified and approved the six courses listed above in the **SETI Course Selection** section as eligible for technical elective transfer credits in Areas 1 and 3.

In general, when selecting the three courses from the Semiconductor Technology and Engineering module and the two courses from the Liberal Arts, Politics, Economics, and Language module electives, the Department encourages students to identify courses of interest to them that are offered in the SETI program in the Spring Semester, and both guidance on their selection and final approval will be provided by your Associate Chair, Undergraduate.

4. If I am interested in applying to go on exchange at NTHU and wish to review and possibly modify my profile on Magellan, how do I go about doing this?

Magellan was locked on January 30th to give the ECE Undergraduate Office time to review student profiles. In order to modify a profile, the student needs to get in touch with Leanne Dawkins in the ECE Undergraduate Office (leanne.dawkins@utoronto.ca) who will unlock their profile. Before modifying the original plan, the student should save their original plan as one of their alternate profiles. Profiles will be unlocked until February 27, 2026.

5. If I modify my profile and then later (after Feb. 27) decide I do not wish to go on exchange and would like to revert to my original course selection, what should I do?

The student should reach out to Leanne Dawkins in the ECE Undergraduate Office and ask her to revert to the student's original plan.

6. What is the cost of tuition while I am on exchange?

Students on exchange pay U of T tuition during their term abroad.

OSAP recipients are eligible to receive funding while on an exchange. There are also grant and award funds available for students planning to go on exchange. Please consult the CIE website for more information: <https://learningabroad.utoronto.ca/awards-funding/>.