



# Western Engineering

Welcome to the ECE  
M.Eng. Program!

## Administrative Staff and M.Eng. Chair



**Cole Handsaeme**  
MEng Program Coordinator/Administrator  
Office: TEB 279  
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What can I help with?  
Your first point of contact, enrollment into courses, general questions about program, deadlines, Health & Safety requirements, program structure, questions about campus, registration/fees, Work Permit queries, graduating, status change in program, appeal processes, and mostly anything else you can think of regarding the M.Eng. Program.



**Dr. Vijay Parsa**  
Associate Chair, M.Eng. Program  
Office: TEB 241 (will be ThreeC+ 3466 in a few weeks)  
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What can I help with?  
Course selection, post-graduation questions, supervisor signature for forms, changing specialization, taking a course outside of ECE.

**Stephanie Tigert**  
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What can I help with?  
Back-up for Cole—can help with any of the same questions as listed above.

## ECE MEng Program Website

Find your specialization in either of these sets of links. This will take you to a page that outlines your Core courses, suggested courses and non-technical courses—and how many you will need to graduate of each.

This shows you the requirements of each of our program options for the MEng program—Course-based or Project-based.

You can change from course to project-based or project to course-based before the end of your first term.

Under “M.Eng. Course Offerings” you will find course titles, times, dates, locations, professors, and start dates (sometimes). You will also find the course outlines for most courses there by clicking on the title of the course. If you cannot find it there and are enrolled—you can find it in the course’s OWL website.

The screenshot shows the website for the Electrical and Computer Engineering MEng Program at Western University. The page has a purple header with navigation links: UNDERGRADUATE, GRADUATE, PEOPLE, and RESEARCH. The breadcrumb trail is Home > Graduate > Current Students > MEng Programs. A search bar is located in the top right. The main content is divided into two columns. The left column is a sidebar with links: Graduate Studies, Future Students, Current Students, Forms, MEng Programs (with sub-links for M.Eng. Communications, M.Eng. Power, M.Eng. Robotics, and M.Eng. Software), Graduate Student Awards, Frequently Asked Questions, MEng Program, PhD Program, New Student Information, and Graduate Research Symposium. The right column is titled 'MEng Programs' and lists five specializations: M.Eng. - Communications & Signal Processing, M.Eng. - Power Systems Engineering, M.Eng. - Robotics & Control, M.Eng. - Software Engineering, and M.Eng. - Engineering in Medicine. Below this is the 'M.Eng. Program Options' section with links for 'M.Eng. Course Based' and 'M.Eng. Project Based'. The 'M.Eng. Course Offerings' section includes a disclaimer and links for 'Fall 2018', 'Winter 2019', and 'Summer 2018'. A 'Contact' section at the bottom left provides the department name and building information. Callout boxes highlight the 'MEng Programs' list, the 'M.Eng. Program Options' list, and the 'M.Eng. Course Offerings' list.

WesternU.ca Popular Links

# Electrical and Computer Engineering

Western Engineering

UNDERGRADUATE GRADUATE PEOPLE RESEARCH

Home > Graduate > Current Students > MEng Programs

Google Custom Search Go

### Graduate Studies

- Future Students
- Current Students
- Forms
- MEng Programs
  - M.Eng. Communications
  - M.Eng. Power
  - M.Eng. Robotics
  - M.Eng. Software
- Graduate Student Awards
- Frequently Asked Questions
- MEng Program
- PhD Program
- New Student Information
- Graduate Research Symposium

### MEng Programs

- M.Eng. - Communications & Signal Processing
- M.Eng. - Power Systems Engineering
- M.Eng. - Robotics & Control
- M.Eng. - Software Engineering
- M.Eng. - Engineering in Medicine

### M.Eng. Program Options

- M.Eng. Course Based
- M.Eng. Project Based

### M.Eng. Course Offerings

\*\*All courses & schedules may be subject to change. Please regularly check this page for the most up to date information\*\*

- Fall 2018
- Winter 2019
- Summer 2018

### Contact

Department of Electrical and Computer Engineering  
Thompson Engineering Building

## Course Specialization Page

This page indicates the requirements for each course, which term those courses fall into, the course number/title, and the instructor's name.

In the example of Communications and Signal Processing to the right, you can see that the Core Course requirements fall from the drop-down menu and you can plan your Core course selection based on the time of the year (Fall, Winter, Summer) that they fall in. **You will need at least 3 Core courses in order to graduate from your chosen specialization. You CANNOT graduate in 2 specializations (for example: Software & Robotics).**

### Suggested Courses and Non-Technical Courses

**Suggested Courses:** These are courses that are “suggested” for this particular specialization that do not require permission from Dr. Parsa in order to enroll in.

**Non-Technical Courses:** These are courses that are only offered in the Summer term and are professional courses that help graduates better understand the business-side of Engineering in Canada. **You must take 2 of these in the Summer and only 2.**

This page does not include projects. If you are planning on doing a project, they will start in term 2 and you will need to find a faculty member/supervisor in order to complete this option.

Computer Engineering Engineering

UNDERGRADUATE GRADUATE PEOPLE RESEARCH

Home > Graduate > Current Students > MEng Programs > M.Eng. Communications

Google Custom Search Go

### Graduate Studies M.Eng. Communications and Signal Processing

**Future Students**

In order to fulfil requirements of this program you have to take at least 3 core courses, 2 non-technical courses, with rest of the courses chosen from a suggested list (a project is equivalent to two courses).

**Current Students**

Forms

- M.Eng. Communications
- M.Eng. Power
- M.Eng. Robotics
- M.Eng. Software

Graduate Student Awards

Frequently Asked Questions

MESc Program

PhD Program

New Student Information

Graduate Research Symposium

Note: On-line self enrollment for graduate courses through Student Center is now available. Follow [Login into the Student Center](#) to enroll.

If taking a course as per the list of suggested courses for your field please note that there is no need to see Dr. Parsa for approval. For any other courses of your interest but related to your stream please see Dr. Parsa, M.Eng. Program Coordinator before submitting the course enrolment form.

If you wish to audit a graduate course or enroll in an undergraduate course please submit an appropriate form to your Graduate Office with all the required signatures before the deadline. Forms can be found on SGPS website under [Course Enrollment](#).

### Communications and Signal Processing Option

- Core Courses
- Suggested Courses
- Non-Technical Courses

#### Core Courses

Semester	Course #	Course Title	Instructor
Fall 2018	ECE 9013	Programming for Engineers <i>*required course*</i>	TBA
Fall 2018	ECE 9014	Data Management & Applications <i>*required course*</i>	TBA
Fall 2018	ECE 9035	Applied Probability Theory	S. Primak
Fall 2018	ECE 9303	Networking Principles	A. Shami
Winter 2019	ECE 9038	Wireless Communications: Design and Simulation	X. Wang
Winter 2019	ECE 9023	Random Signals, Adaptive and Kalman Filtering	V. Parsa
Summer 2018	ECE 9034	Digital Modulation and Coding	R. Rao

# Information About Course Offerings

You can find information about all course offerings in each term at [this site](#). This will show you the course code, title, and instructor—much like the course specialization on the previous page—but also includes the schedule and start dates for the course.

The schedule and start dates do not appear in your Student Center. This is common for Graduate courses, as they are not instructed or taught in the same format as Undergraduate courses.

You can usually\* find updated course outlines here as well, but the best source for course outlines is OWL (discussed later) or on the first day of class as a handout.

This page also includes course enrollment deadlines, office hours for the ECE Office and Dr. Parsa, the Proposed Program form, and information about [scholastic integrity](#), continuous registration, and applying to graduate.

### Graduate Studies

- Future Students
- Current Students
- Forms
- MEng Programs
  - M.Eng. Communications
  - M.Eng. Power
  - M.Eng. Robotics
  - M.Eng. Software
- Graduate Student Awards
- Frequently Asked Questions
- MESc Program
- PhD Program
- New Student Information
- Graduate Research Symposium

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### Contact

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### MEng Programs

- M.Eng. - Communications & Signal Processing
- M.Eng. - Power Systems Engineering
- M.Eng. - Robotics & Control
- M.Eng. - Software Engineering
- M.Eng. - Engineering in Medicine

#### M.Eng. Program Options

▸ M.Eng. Course Based

▸ M.Eng. Project Based

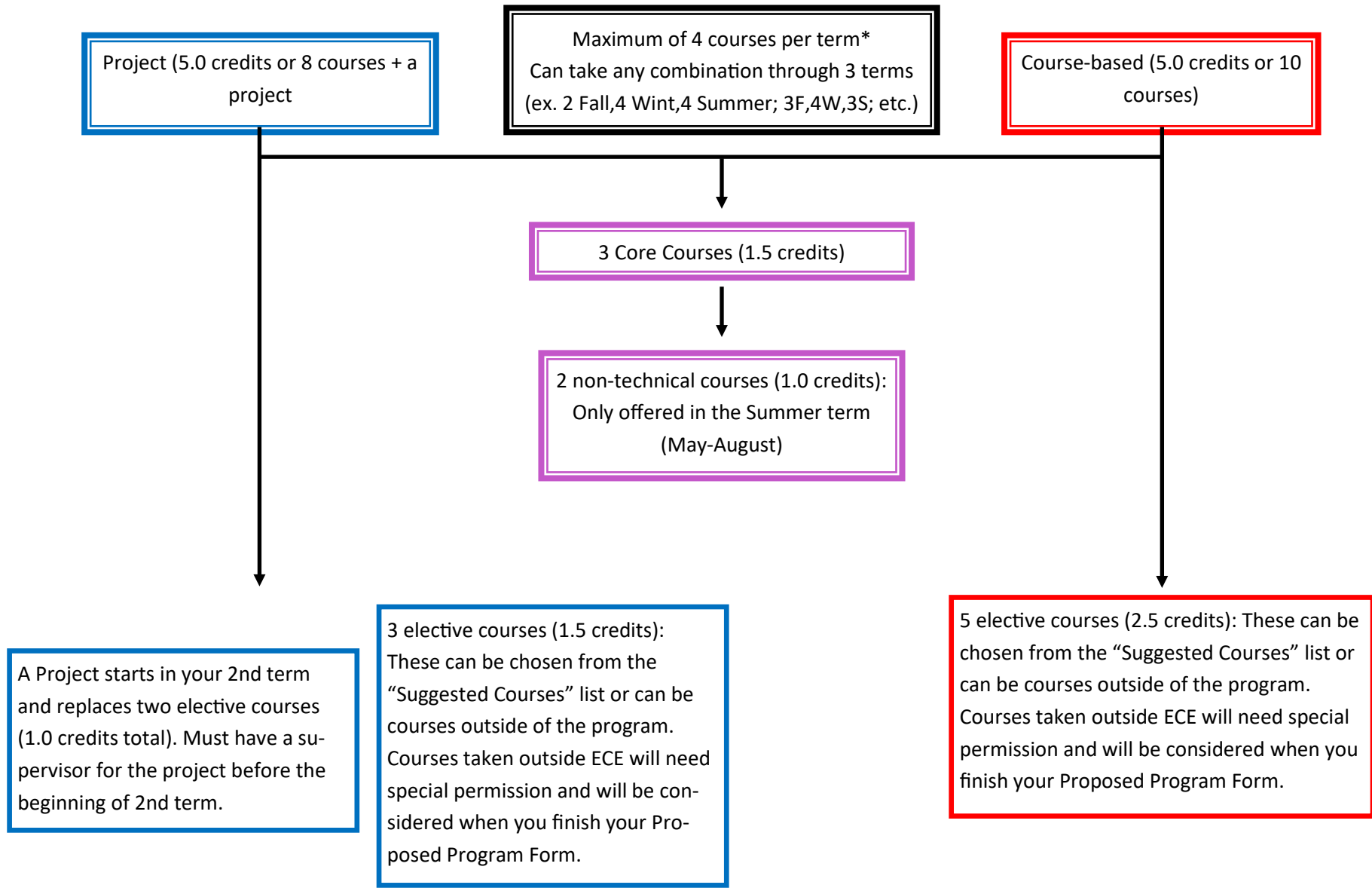
#### M.Eng. Course Offerings

\*\*All courses & schedules may be subject to change. Please regularly check this page for the most up to date information\*\*

▾ Fall 2018

Course	Title	Instructor	Schedule	Start day
ECE 9013	Programming for Engineers	TBD	Monday 11:30am-2:30pm HSB 236	September 10, 2018
ECE 9014	Data Management & Applications	TBD	Wednesday 2:30-5:30pm NCB113	September 12, 2018
ECE 9056	Linear Systems & Modern Control Theory	L. Brown	Tuesday & Wednesday 5:30-7:00pm SEB 2202	September 11, 2018
ECE 9021	Digital Image Processing	H. Ladak	Monday 5:30-6:30pm SEB 1200, Thursday 9:30-10:30am SEB 1059 & Friday 10:30-11:30am UCC 146	
ECE 9043	High Frequency Power Converters	G. Moschopoulos	Mon 9:00pm – 11:00pm SEB 2202	September 6, 2018 @ 3:30 in

## MEng Specialization (Robotics, Software, Communications, or Power)



# How do I Enroll in Courses?

# Electrical and Computer Engineering

## FORMS

### Enrollment forms:

These forms will be required if you wish to take an Undergraduate course, a course that is not in ECE, if you wish to Audit a course, or you wish to drop a course after the September 15th deadline.

You will need signatures from the professors of the courses you wish to take in order to complete these forms. These signatures can be electronic or by email if the professor is not physically on campus.

An Audit course is a course that is not counted for credit, but shows that you attended at least 80% of the lectures and met all other conditions set by the professor.

These forms can also be found in folders outside the TEB 279 office to fill out.

The Proposed Program form is the first form you will need to fill out. This will be your “Plan” for the upcoming year of your MEng program. Using the Course Specialization webpage we discussed on the previous page, you can plan your course selection for the year to ensure that you have the adequate number of courses to complete your degree on time.

Please download this first and install Adobe Reader to fill out properly. You can hand this in physically to TEB 279 or send it through email to ecegrad@uwo.ca. You do NOT need the Chair’s signature—the ECE office will handle this.

Home > Graduate > Current Students > Forms

### Graduate Studies

- Future Students
- Current Students
- Forms
- MEng Programs
- Graduate Student Awards
- Frequently Asked Questions
- MESc Program
- PhD Program

### Forms

#### Course Enrollment

- Graduate student taking an undergraduate course
- Request to enrol in a graduate course outside home program
- Graduate course audit form
- Request to drop courses
- Graduate Student Holiday Form

#### M.Eng. Program

- Proposed M.Eng. program - download first to fill out

**Faculty of Engineering  
Department of Electrical and Computer Engineering  
PROPOSED M.Eng. PROGRAM**

Student Name:	Student ID:
Student Email Address:	Start Date of M.Eng. Program:
Stream of Study	
<input checked="" type="radio"/> Communications <input type="radio"/> Robotics <input type="radio"/> Software <input type="radio"/> Power <input type="radio"/> Eng in Med.	

**COURSES TO BE TAKEN AT UWUO**

Term	Course Number	Title	I.0/0.5	Instructor
Winter				
Winter				
Winter				
Winter				
Winter				
Winter				
Winter				
Winter				
Winter				
Winter				
Winter				

Project Topic (if applicable): \_\_\_\_\_

\*Any course not listed on the approved course list must have department approval BEFORE you enrol in the course online. Any course taken without department approval (revision of proposed program form) may not be counted towards the M.Eng degree.

M.Eng. Chair Comments: \_\_\_\_\_

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_  
M.Eng. Graduate Chair

\_\_\_\_\_  
Date



# What is OWL?

The screenshot shows the OWL interface for a Western University course. The main content area displays the course title "Modeling Power Systems for Protection, Control, and Tr...", the Western University logo, and contact information for the Department of Electrical & Computer Engineering. A sidebar on the left contains navigation tabs for Overview, Announcements, Resources, Assignments, Gradebook, Polls, and Help. A top navigation bar shows "Home", "ECE 9048A 001 GF18", and a "Sites" button. A red box highlights a "Sites" drawer on the right, which lists various course sites such as "Graduate 2019 Winter Graduate", "Undergraduate 2018 Fall/Winter", "OTHER", and "PROJECTS". A red arrow points from the "Sites" button in the top bar to the "Sites" drawer.

[OWL](#) is a site used by instructors to communicate with students about project, grades, assignments and reading materials outside of class. It can also be used for many other things, but each instructor can control which options they would like to use on the site. This is also where your Health & Safety Training will be done.

In this example of ECE 9048 for Fall 2018, you can see the main page with a general overview of the course, contact hours, location and the first lecture date.

**On the left-hand side**, you can see the menu for the course. The most used tabs are the announcements, resources, gradebook and assignments tabs. The instructor will go over which menu options they will use in their course, if any at all. Instructors can also add things like forums, calendars, dropbox, research guides, syllabus, tests and quizzes and many more to the menu.

In the top-right, you can see **Sites**—which will open a window that shows all of the sites you are currently tied to. These will be your course sites and they can be chosen as “favourites” by selecting the star beside each. This will add it to the top bar when you log in for easy access.

*Please note that access to your course site will take 24 hours from the time you enrolled in the course. Please be patient.*

## Health and Safety Requirements

The MEng program requires four essential safety training courses, which can all be done online and take between 15-60 minutes each in order to complete.

These courses will become available usually within 2-3 business days of being a registered student (ie. all admission conditions cleared in your Student Center).

**The deadline to complete all required Health and Safety is by the end of the first month of classes (ie. September 30th or January 31st).**



### What safety training am I required to complete?

All graduate students are required to complete the following training within the first two months of study. Failure to do so can result in your student account being sealed. To unseal your account you will be required to pay a \$50 fee and show proof that you completed all required training.

If you have not already done so, sign the [Acceptable Use Agreement](#), then wait 15 minutes. You should now be able to join the required training in OWL. Instructions for joining all training sessions is available here: <http://uwo.ca/hr/learning/required/index.html>

<b>MEng</b>	<b>MESc</b>	<b>PhD</b>
WHMIS	WHMIS	WHMIS
Worker Health & Safety Awareness Training	Worker Health & Safety Awareness Training	Worker Health & Safety Awareness Training
Safe Campus Community	Safe Campus Community	Safe Campus Community
Accessibility in Service	Accessibility in Service	Accessibility in Service
	Laboratory Safety - Hazardous Waste	Laboratory Safety - Hazardous Waste
	Training sessions are available at the start of each term. Students must then complete the online training on OWL	Training sessions are available at the start of each term. Students must then complete the online training on OWL
	<a href="#">Workplace Hazards Communication Form</a>	<a href="#">Workplace Hazards Communication Form</a>
	When you complete this form your need to list your supervisor's email as mgaylard@uwo.ca	When you complete this form your need to list your supervisor's email as mgaylard@uwo.ca
	Students with TA Assignments must complete Accessibility in Teaching on OWL	Students with TA Assignments must complete Accessibility in Teaching on OWL

## Health and Safety Site

You can access the health and safety training site from the ECE site in our last slide or from here: <https://www.uwo.ca/hr/learning/required/>.

Once on this page, you will notice 4 drop-down training areas available. You will need to complete each of the following: Worker Health and Safety Awareness Training, WHMIS, Safe Campus Community, and Accessibility in Service.

First, sign the **Acceptable Use Agreement** and wait 15 minutes. You should be able to access all of the training sites after that. You can complete them in any order.

Once you have completed all 4 required training programs, please email them to [ecegrad@uwo.ca](mailto:ecegrad@uwo.ca) or print and bring in the PDF certificates for each of the courses to TEB 279 during office hours.

Supervisor Health and Safety Awareness Training -OR-  
Worker Health and Safety Awareness Training

### WHMIS - Workplace Hazardous Materials Information System

**IMPORTANT:** WHMIS is changing. On May 2, 2016, a single new version of WHMIS training replaced the previous two WHMIS training programs. You will be required to take the new version of the training, even if you completed one of the previous versions prior to the introduction of the new training.

#### WHMIS \*NEW\* - Workplace Hazardous Materials Information System

**Course length:** 60-90 minutes **Training frequency:** Once every 3 years

**Type of training:** Online **Course link:** If you have not already done so, sign the **Acceptable Use Agreement** then wait 15 minutes. Next, [click here to link to WHMIS \\*New\\*](#) on OWL. Login with the same Western User ID used for My Human Resources. After login, choose "Yes, please add me" to join worksite.

**Who should participate:** Mandatory for all new Western staff, faculty, graduate students, work study students, co-op students and volunteers.

**Reminder:** All existing Western staff, faculty, graduate students, work study students, co-op students and volunteers must also complete the **NEW** version of WHMIS. Please do so by August 31, 2016.

#### Course objectives:

At the completion of the course, the participant will be able to:

- Understand what WHMIS 2015 is and why it is important to workers
- Understand what GHS is and how it affects WHMIS 2015
- Identify the WHMIS 2015 hazard classes and symbols
- Identify the types of information covered on supplier and workplace labels
- Understand the purpose, content and function of a Safety Data Sheet (SDS)
- Understand the hazards associated with controlled products
- Know your legal rights and duties under WHMIS 2015

WHMIS Regulations - RRO 1990, Reg 860

# Frequently Asked Questions

## How long will my Post-Graduation Work Permit (PGWP) last for and when can I get it?

You can apply for a Work Permit for one year after you graduate from the M.Eng. Program. You will be able to start applying for the Work Permit once you have completed all required courses at the end of either August (for Fall admits) or December (for Winter admits). At this time, you can be issued a Completion Letter from the Registrar's Office in Student Central (where you obtained your Student Card). You can visit: <https://www.canada.ca/en/immigration-refugees-citizenship/services/study-canada/work/after-graduation/about.html> for more information about what else you will need.

## What is the minimum and maximum residency requirement for program?

The minimum required time to complete the program is 1 year (or 3 terms). You can complete a maximum of 4 courses each term, which means you cannot complete before the 3rd term. The maximum allowed residency to complete the program is 2 years (or 6 terms), but this can be extended for extenuating circumstances (ie. Leave of Absences, family emergencies, full-time employment, etc.).

## Can I take a course outside of Electrical and Computer Engineering?

Yes! As long as the course is related to your specialization and it is approved by Dr. Parsa, you may enroll in them. There is a form that you need to fill out in order to enroll in the course, as it will need to be done in the ECE office. You will need the instructor and Dr. Parsa's approval to enroll. These courses will be counted as technical electives and you can take a **maximum of TWO (2)** outside of ECE.

## Can I switch specializations to **X Specialization**?

This is dependent on enrollment numbers for the specialization you are asking about and your past performance in the areas of that specialization. We made the offer to you for the specialization you applied for with the intention that you would finish those courses. *We are not accepting any changes to the Software program at this time.* If things change, we will let all students know.

## Can I audit a course?

Yes, you may audit courses related to your specialization. These courses are not counted towards your degree, but are counted in the maximum of courses you can take in the term (4). Please be aware that no grade is awarded in these cases and it will show on your transcript as "AUD" once you have completed under the requirements that the instructor has set at the start of the term.