ECE201H1 F

Magellan Info Session

The Edward S. Rogers Sr. Department of Electrical & Computer Engineering (ECE) at the University of Toronto.

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Leanne Dawkins, Academic Advisor, Program Manager

UNIVERSITY OF TORONTO

Outline

- Undergraduate Office
- Learning Strategies for Academic Success
- Flexible Curriculum
- Magellan Course Software
- CEAB Requirements
- How To Get Help?

Resources

Individual appointments with:

- Academic Advisors
- Learning Strategist
- Health and Wellness Counsellor
- Accessibility Advisor
- Librarian: Engineering & Comp Sci Library / Robarts Library
- U of T Telus Health Student Support

Know the Academic Calendar

The Academic Calendar is your contract with the university. Know your responsibilities and rights, and all rules governing your undergraduate studies:

https://engineering.calendar.utoronto.ca/

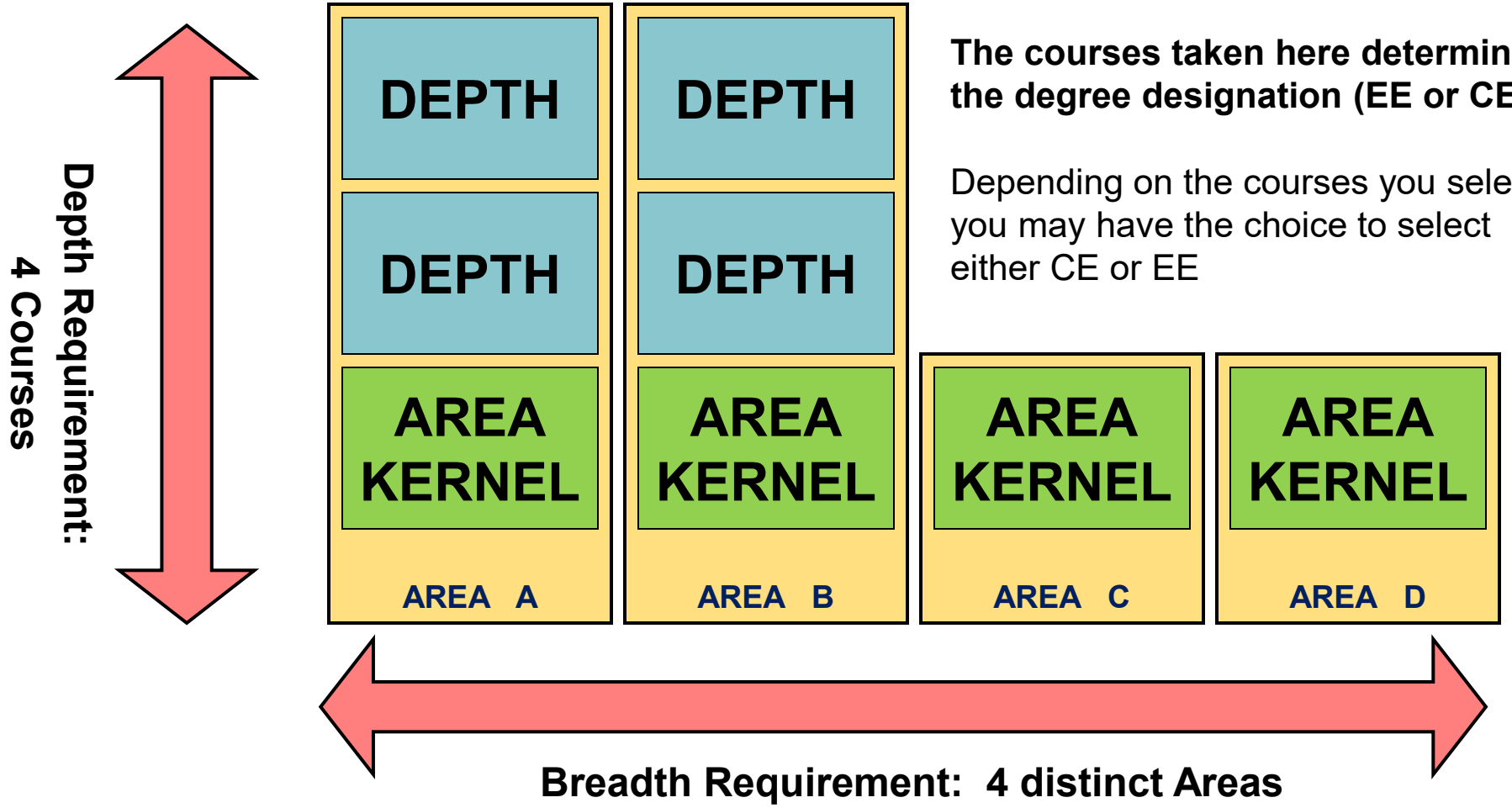
Fulfilling Requirements

- Breadth/depth requirements (8 half credits)
- Science/Math requirement (1 half credit)
- Technical Electives (3 half credits)
- Free Elective (1 half credit)
- Complementary/Humanities & Social Sciences (4 half credits)
- Engineering Economics: ECE472H1 (1 half credit)
- Capstone (ECE496Y1 or APS490Y1 or BME498Y1) (1 full credit)
- 600 Hours Practical Experience
- CEAB requirements

ECE Flexible Curriculum 3rd & 4th Year

Area Kernel Courses (4 required from 4 different areas)	**AREA KERNEL**	**AREA KERNEL**	**AREA KERNEL**	**AREA KERNEL**
Depth Courses (4 required - 2 courses from 2 areas chosen above)	**DEPTH**	**DEPTH**	**DEPTH**	**DEPTH**
Science/Math + Technical Electives *(These TE do not need to be from the areas you selected for Kernel/Depth requirements)*	**TECHNICAL** Elective	**TECHNICAL** Elective	**TECHNICAL** Elective	**SCIENCE/MATH** Elective
Complementary Studies Electives* **two must be HSS*	**CS** Complementary Studies Elective	**CS** Complementary Studies Elective	**HSS** Humanities & Social Science Elective	**HSS** Humanities & Social Science Elective
- **Capstone** - **Eng. Economics** - **Free Elective**	**Capstone Design Project** **ECE496Y1 / APS490Y1 / BME498Y1**		**ECE472** Engineering Economic Analysis & Entrepreneurship	**FREE** Elective

Breadth and Depth Requirement



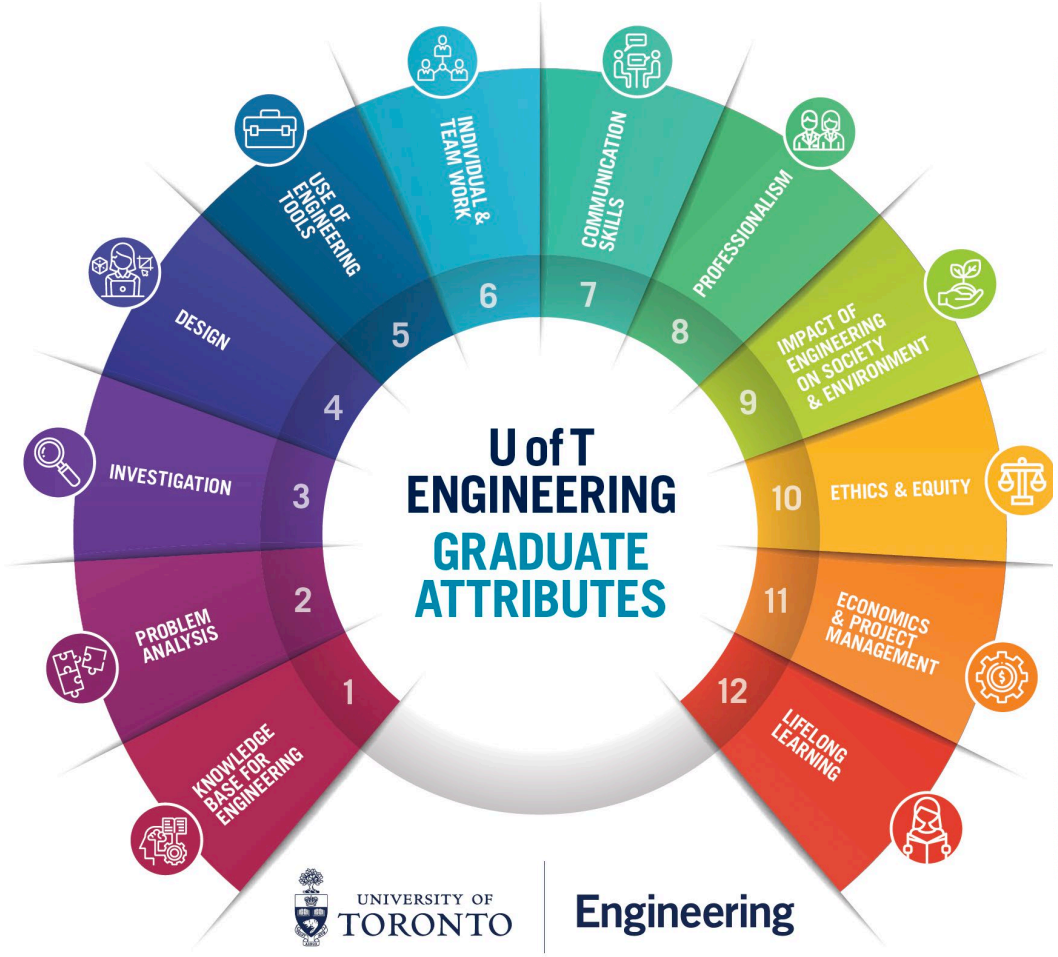
The courses taken here determine the degree designation (EE or CE).

Depending on the courses you select, you may have the choice to select either CE or EE

What is not Flexible

- **ECE472H1 (**Engineering Economics). This course can be taken in 3rd or 4th year.
- **Capstone Design** (ECE496Y1/APS490Y1/BME498Y).
  - One capstone course must be completed in your **final year**
- Canadian Engineering Accreditation Board (**CEAB**) requirements must be met
  - Magellan can help you with this
- **Pre-requisites** must be completed for advanced level courses
- There may be
  - enrolment limitations,
  - CEAB limitations,
  - pre-requisite requirements

Graduate Attributes



1 KNOWLEDGE BASE FOR ENGINEERING

- Demonstrate competence in mathematics and modeling
- Understand the natural sciences and engineering fundamentals
- Possess specialized engineering knowledge appropriate to the program

2 PROBLEM ANALYSIS

- Identify and characterize an engineering problem
- Formulate a solution plan (methodology) for an engineering problem
- Formulate and interpret a model
- Execute solution process for an engineering problem

3 INVESTIGATION

- Define a problem
- Devise and execute a plan to solve a problem
- Use critical analysis to reach valid conclusions supported by the results of the plan

4 DESIGN

- Frame a complex, open-ended problem in engineering terms
- Generate a diverse set of candidate engineering design solutions
- Select candidate engineering design solutions for further development
- Advance an engineering design to a defined end state

5 USE OF ENGINEERING TOOLS

- Use fundamental modern techniques, resources and engineering tools
- Use discipline-specific techniques, resources and engineering tools
- Recognize limitations of the tools used

6 INDIVIDUAL & TEAM WORK

- Establish and monitor team organizational structure
- Promote team effectiveness through individual action
- Be successful in a team-based project

7 COMMUNICATION SKILLS

- Identify and credibly communicate engineering knowledge
- Use different modes of communication
- Develop communication through an iterative process

8 PROFESSIONALISM

- Describe engineering roles in a broader context (pertaining to the environment, health, safety and public welfare)
- Recognize the impact of engineering within global society (the broader public interest)
- Behave in a professional manner

9 IMPACT OF ENGINEERING ON SOCIETY & ENVIRONMENT

- Understand relationships among technology and the social, cultural, economic and environmental conditions of society—both locally and globally, and in the short- and long-term
- Identify and choose alternative ways to mitigate or prevent adverse social, environmental, health and safety impacts
- Demostrate awareness of legal issues relevant to an engineering activity

10 ETHICS & EQUITY

- Recognize ethical and equity-based dilemmas
- Apply the Code of Ethics and equity principles
- Act ethically and demonstrate individual accountability

11 ECONOMICS & PROJECT MANAGEMENT

- Estimate the life-cycle economic and financial costs and benefits for relevant engineering activities
- Evaluate the economic and financial performance of an engineering activity and compare alternative proposals on the basis of these measures
- Read and understand financial statements for engineering activities
- Plan and manage engineering activities to be within time and budget constraints

12 LIFELONG LEARNING

- Independently summarize, analyze, synthesize and evaluate information from a wide variety of sources
- Develop a strategy to identify and address gaps in knowledge

- Each course is assigned a set of graduate attributes
- Class performance on GAs is tracked by your Professors

Accreditation Units (AUs)

- AU Allocation: AUs are based on contact hours in lectures, labs, and tutorials, aligning with CEAB requirements.
- CEAB expects you to attend lectures, tutorials and labs
- **Lectures**: Primary instruction mode, 1 AU/hour; e.g., 3 hours/week for 12.2 weeks = 36.6 AUs.
- **Labs**: Hands-on sessions, 0.5 AU/hour; e.g., 3-hour bi-weekly lab for 6 sessions = 9.15 AUs.
- **Tutorials**: Problem-solving focus, 0.5 AU/hour; e.g., 2 hours/week for 12.2 weeks = 12.2 AUs.

Accreditation Units (AUs)

- To graduate from an accredited engineering program in Canada, the Canadian Engineering Accreditation Board (CEAB) requires students to complete a minimum of **1,850 Accreditation Units (AUs)**. (Engineers Canada)
  These AUs are distributed across specific categories to ensure a well-rounded engineering education:

- **Mathematics**: ≥ 195 Aus
- **Natural Science**: ≥ 195 AUs
- **Natural Science AUs + Mathematics AUs**: ≥ 420 AUs
- **Engineering Science**: ≥ 225 Aus
- **Engineering Design**: ≥ 225 Aus
- **Engineering Science + Engineering Design**: ≥ 900 Aus
- **Complementary Studies**: ≥ 225 Aus

- All courses have unique AUs assigned based on course content

Accreditation Units (AUs)

- Examples of AUs in courses

Academic	Course delivery				Total AU Calculation based on delivery					CEAB category percentages					Course AU based on category				
year 25-26	LEC	PRA	TUT	WEEKS	LECTURE	PRACTICAL	TUTORIAL	PRA/TUT	TOTAL	MATH %	CS%	NS%	ES%	ED%	MATH AU	CS AU	NS AU	ES AU	ED AU
MAT290H1 F	3	0	2	12.2	36.6	0	24.4	12.2	48.8	100	0	0	0	0	48.8	0	0	0	0
MAT291H1 F	3	0	2	12.2	36.6	0	24.4	12.2	48.8	100	0	0	0	0	48.8	0	0	0	0
ECE110H1 S	3	1	2	12.2	36.6	12.2	24.4	18.3	54.9	0	0	50	50	0	0	0	27.45	27.45	0
ECE191H1 S	1	0	0	12.2	12.2	0	0	0	12.2	0	0	0	100	0	0	0	0	12.2	0
ECE201H1 F	1	0	0	12.2	12.2	0	0	0	12.2	0	0	0	100	0	0	0	0	12.2	0
ECE212H1 S	3	1.5	2	12.2	36.6	18.3	24.4	21.35	57.95	0	0	0	100	0	0	0	0	57.95	0
ECE216H1 S	3	1	2	12.2	36.6	12.2	24.4	18.3	54.9	25	0	0	75	0	13.73	0	0	41.18	0
ECE221H1 S	3	1	2	12.2	36.6	12.2	24.4	18.3	54.9	0	0	75	25	0	0	0	41.18	13.73	0
ECE231H1 F	3	1.5	2	12.2	36.6	18.3	24.4	21.35	57.95	0	0	0	75	25	0	0	0	43.46	14.49
ECE241H1 F	3	3	0	12.2	36.6	36.6	0	18.3	54.9	0	0	0	50	50	0	0	0	27.45	27.45
ECE243H1 S	3	3	0	12.2	36.6	36.6	0	18.3	54.9	0	0	0	70	30	0	0	0	38.43	16.47
ECE244H1 F	3	2	1	12.2	36.6	24.4	12.2	18.3	54.9	0	0	0	75	25	0	0	0	41.18	13.73
ECE295H1 S	2	2	2	12.2	24.4	24.4	24.4	24.4	48.8	0	25	0	25	50	0	12.2	0	12.2	24.4
ECE297H1 S	2	2	2	12.2	24.4	24.4	24.4	24.4	48.8	0	50	0	0	50	0	24.4	0	0	24.4
ECE302H1 F	3	0	2	12.2	36.6	0	24.4	12.2	48.8	100	0	0	0	0	48.8	0	0	0	0
ECE302H1 S	3	0	2	12.2	36.6	0	24.4	12.2	48.8	100	0	0	0	0	48.8	0	0	0	0
ECE311H1 F	3	1.5	1	12.2	36.6	18.3	12.2	15.25	51.85	0	0	0	75	25	0	0	0	38.89	12.96
ECE311H1 S	3	1.5	1	12.2	36.6	18.3	12.2	15.25	51.85	0	0	0	75	25	0	0	0	38.89	12.96
ECE313H1 S	3	1.5	1	12.2	36.6	18.3	12.2	15.25	51.85	0	0	0	100	0	0	0	0	51.85	0
ECE314H1 F	3	1.5	1	12.2	36.6	18.3	12.2	15.25	51.85	0	0	0	75	25	0	0	0	38.89	12.96
ECE316H1 F	3	1.5	1	12.2	36.6	18.3	12.2	15.25	51.85	0	0	0	100	0	0	0	0	51.85	0
ECE316H1 S	3	1.5	1	12.2	36.6	18.3	12.2	15.25	51.85	0	0	0	100	0	0	0	0	51.85	0
ECE318H1 F	3	1.5	1	12.2	36.6	18.3	12.2	15.25	51.85	0	0	60	40	0	0	0	31.11	20.74	0
ECE318H1 S	3	1.5	1	12.2	36.6	18.3	12.2	15.25	51.85	0	0	60	40	0	0	0	31.11	20.74	0
ECE320H1 F	3	1.5	1	12.2	36.6	18.3	12.2	15.25	51.85	0	0	60	40	0	0	0	31.11	20.74	0
ECE326H1 F	3	1.5	1	12.2	36.6	18.3	12.2	15.25	51.85	0	0	0	75	25	0	0	0	38.89	12.96
ECE330H1 S	3	0	2	12.2	36.6	0	24.4	12.2	48.8	0	0	60	40	0	0	0	29.28	19.52	0
ECE331H1 F	3	1.5	1	12.2	36.6	18.3	12.2	15.25	51.85	0	0	0	70	30	0	0	0	36.30	15.56

Degree Designation Depends on Kernel/Depth Courses

Kernel A	Depth A1	Depth A2	Kernel B	Depth B1	Depth B2	Kernel C	Kernel D	**CE**
Kernel A	Depth A1	Depth A2	Kernel B	Depth B1	Depth B2	Kernel C	Kernel D	**CE**
Kernel A	Depth A1	Depth A2	Kernel B	Depth B1	Depth B2	Kernel C	Kernel D	**EE**
Kernel A	Depth A1	Depth A2	Kernel B	Depth B1	Depth B2	Kernel C	Kernel D	**EE**
Kernel A	Depth A1	Depth A2	Kernel B	Depth B1	Depth B2	Kernel C	Kernel D	**EE**
Kernel A	Depth A1	Depth A2	Kernel B	Depth B1	Depth B2	Kernel C	Kernel D	**EE**

Key:

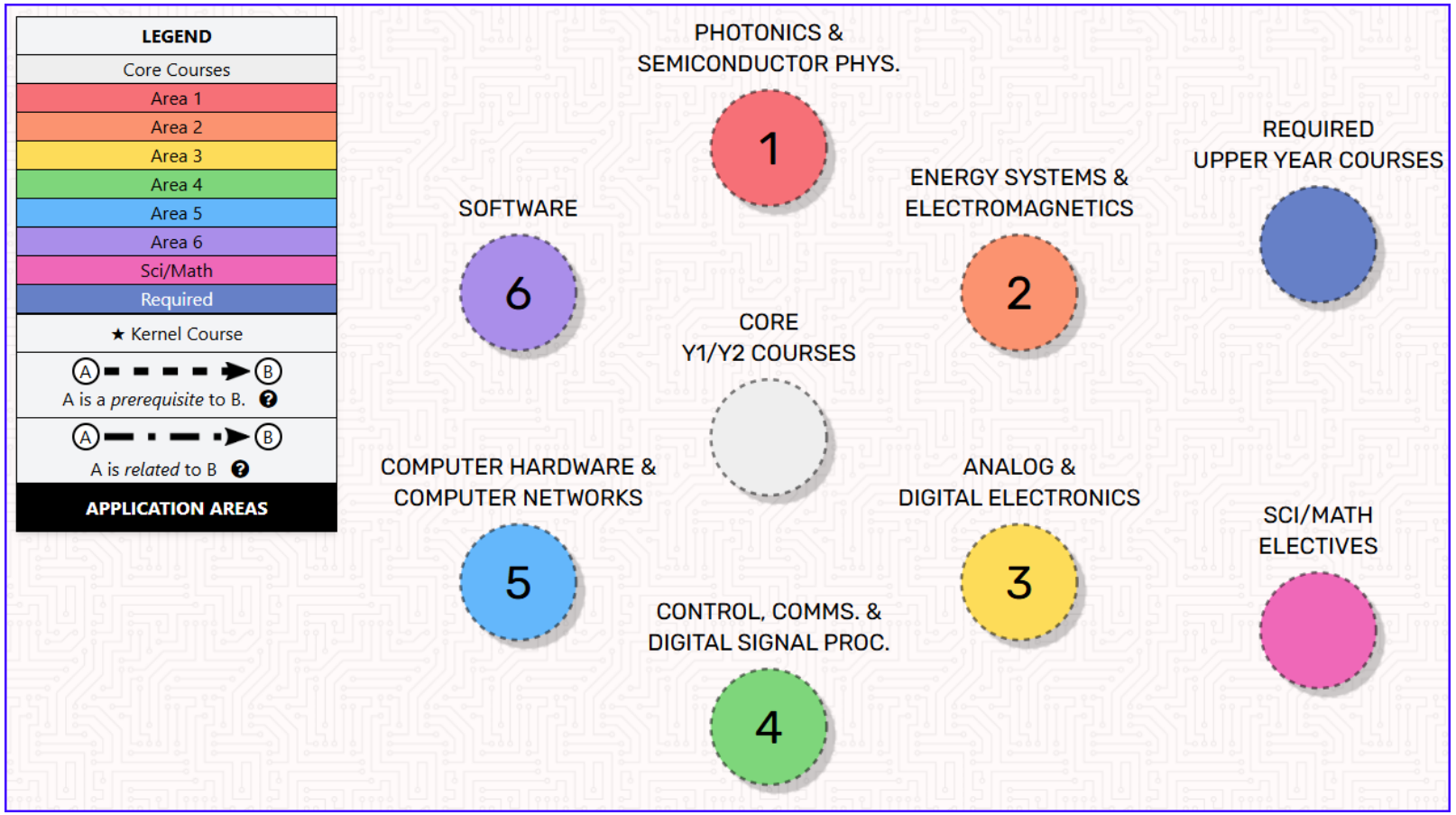
Areas 1 – 4 (EE)

Areas 5 or 6 (CE)

6 combinations are possible.

ECE Iris

https://ececourses.ece.utoronto.ca/



Mapping tool for ECE students, used to visualize connections between courses and highlight application areas, to aid in course selection.

Magellan Course Selection

- All ECE courses are grouped by areas of study (Areas 1-6, Science/Math)
- Some courses may appear in more than one area, but when taken can only apply to ONE requirement.
- When you select a course, you can specify the year and the term in which you wish to take it (your 3rd and 4th year).
- Course selections must respect pre-requisite requirements

3rd and 4th Year Courses (Areas 1 – 4) - EE

Area 1 Photonics and Semiconductor Physics	**ECE335 – Intro to Electronic Devices**	**ECE318 – Fundamentals of Optics**
	ECE427 – Photonic Devices ECE437 – VLSI Technology	ECE330 – Quantum & Semiconductor Physics ECE469 – Optical Communications & Networks
Area 2 Electromagnetics and Energy Systems	**ECE314 – Fund. Of Electrical Energy Systems** **ECE320 – Fields and Waves**	**ECE313 – Energy Systems & Distributed Generation**
	BME595 – Medical Imaging ECE424 – Microwave Circuits ECE520 – Power Electronics	ECE422 – Radio and Microwave Wireless Systems ECE463 – Electric Drives ECE526 - Power System Protection & Automation
Area 3 Analog and Digital Electronics	**ECE331 – Analog Electronics**	**ECE334 – Digital Electronics**
	ECE424 – Microwave Circuits ECE430 – Analog Integrated Circuits ECE446 – Sensory Communication	ECE437 – VLSI Technology ECE412 – Analog Signal Processing Circuits ECE532 – Digital Systems Design
Area 4 Control, Communications and Signal Processing	**ECE311 – Introduction to Control Systems**	**ECE316 – Communication Systems**
	BME445 – Neural Bioelectricity BME595 – Medical Imaging ECE302 – Probability & Applications ECE368 – Probabilistic Reasoning ECE410 – Linear Control Systems ECE417 – Digital Communication ECE431 – Digital Signal Processing ECE441 – Interfacing & Modulating the Nervous System ECE446 – Sensory Communication ECE537 – Random Processes	ECE411 – Adaptive Control & Reinforcement Learning ECE421 – Introduction to Machine Learning ECE422 – Radio and Microwave Wireless Systems ECE462 – Multimedia Systems ECE464 – Wireless Communication ECE469 – Optical Communications & Networks ECE470 – Robot Modeling and Control ECE516 – Intelligent Image Processing BME331 – Physiological Control Systems

3rd and 4th Year Courses (Areas 5 – 6) - CE

Area 5 Computer Hardware & Computer Networks	**ECE361 – Computer Networks I** ECE302 – Probability and Applications ECE461 – Internetworking ECE466 – Computer Networks II ECE469 – Optical Communications & Networks ECE537 – Random Processes	**ECE342 – Computer Hardware** ECE462 – Multimedia Systems ECE464 – Wireless Communication ECE532 – Digital Systems Design ECE552 – Computer Architecture ECE568 – Computer Security
Area 6 Software	**ECE344 – Operating Systems** APS360 – Applied Fundamentals of Machine Learning ECE326 – Programming Languages ECE444 – Software Engineering I ECE467 – Compilers & Interpreters ECE454 – Computer Systems Programming	**ECE345 – Algorithms & Data Structures** CSC343 – Introduction to Databases CSC317 – Computer Graphics ECE419 – Distributed Systems ECE448 – Biocomputation ECE461 – Internetworking ECE568 – Computer Security

3rd and 4th Year Courses (Science/Math)

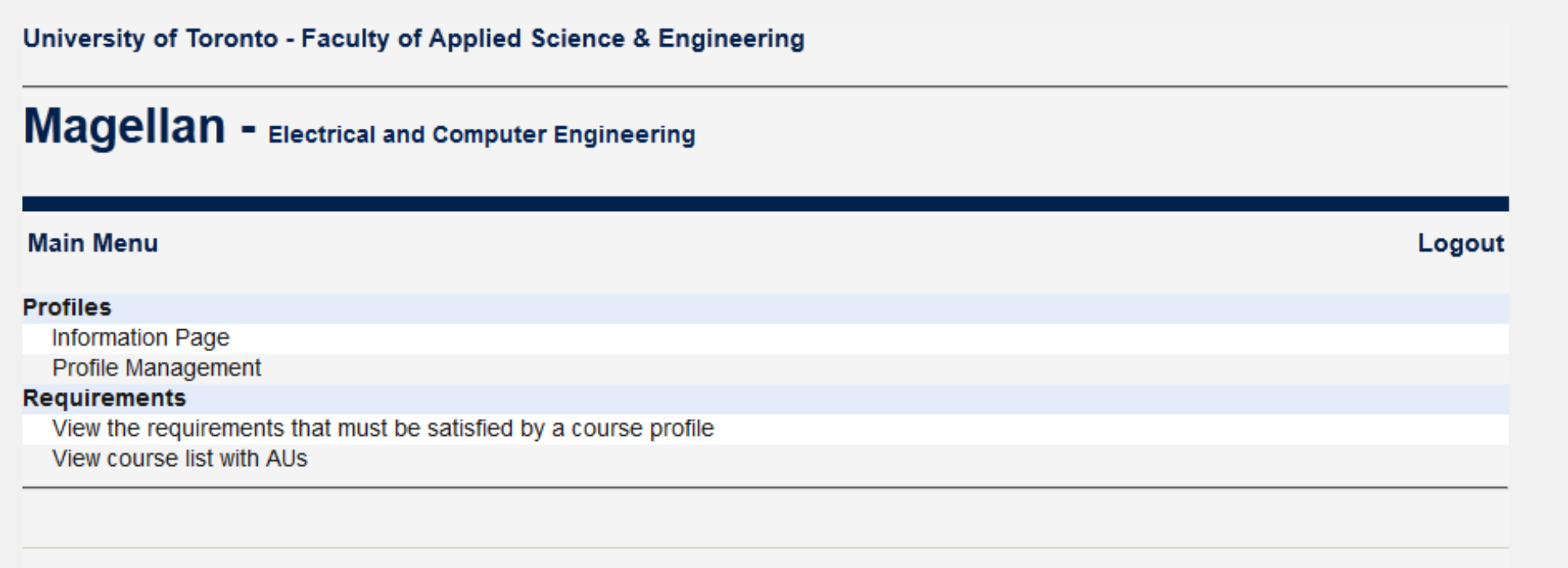
Science/Math Electives	ESC384 – Partial Differential Equations BME455 – Cellular & Molecular Bioengineering II CHE353 – Engineering Biology CIV220 – Urban Engineering Ecology CIV300 – Terrestrial Energy Systems ECE302 – Probability and Applications ECE367 – Matrix Algebra and Optimization	BME440 – Biomedical Engineering Tech and Investigation CHE354 – Cellular and Molecular Biology BME331 – Physiological Control Systems ECE368 – Probabilistic Reasoning ECE448 – Biocomputation ECE537 – Random Processes PHY365 – Quantum Information

Example of 3rd & 4th Year Course Selection

3F	**AREA KERNEL**	**AREA KERNEL**	**SCI/MATH**	**TECH** Elective	**CS** Complementary Studies Elective
3W	**AREA KERNEL**	**AREA KERNEL**	**DEPTH**	**ECE472** Engineering Economics	**CS** Complementary Studies Elective
4F	**DEPTH**	**DEPTH**	**TECH** Elective	**Capstone**	**HSS** Humanities & Social Science Elective
4W	**FREE** Elective	**DEPTH**	**TECH** Elective		**HSS** Humanities & Social Science Elective

Magellan Profile Management

- An in-house software developed to help students choose 3rd and 4th year courses
- Online tool, highly intuitive. Just choose and click.



https://magellan.ece.toronto.edu/

Core Requirements (1st & 2nd Years)

Course List 20251

Session						
20239	APS100H1 F Orientation to Engineering	APS110H1 F Engineering Chemistry and Materials Science	APS111H1 F Engineering Strategies & Practice I	CIV100H1 F Mechanics	MAT186H1 F Calculus I	MAT188H1 F Linear Algebra
20241	APS105H1 S Computer Fundamentals	APS112H1 S Engineering Strategies & Practice II	ECE110H1 S Electrical Fundamentals	ECE191H1 S Introduction to Electrical and Computer Engineering	MAT187H1 S Calculus II	MIE100H1 S Dynamics
20249	ECE201H1 F Seminar Course: Electrical and Computer Engineering	ECE231H1 F Introductory Electronics	ECE241H1 F Digital Systems	ECE244H1 F Programming Fundamentals	MAT290H1 F Advanced Engineering Mathematics	MAT291H1 F Introduction to Mathematical Physics
20251	ECE212H1 S Circuit Analysis	ECE216H1 S Signals and Systems	ECE221H1 S Electric and Magnetic Fields	ECE243H1 S Computer Organization	ECE295H1 S Hardware Design and Communication	

Choosing Courses on Magellan

Kernel Courses

Area 1: Photonics & Semiconductor Physics

Select	ECE335H1F: Introduction to Electronic Devices	Select	ECE318H1S: Fundamentals of Optics
Select	ECE427H1F: Photonic Devices	Select	ECE330H1S: Quantum and Semiconductor Physics
		Select	ECE437H1S: VLSI Technology
		Select	ECE469H1S: Optical Communications and Networks

Kernel Courses

Area 2: Electromagnetics & Energy Systems

Select	ECE314H1F: Fundamentals of Electrical Energy Systems	Select	ECE313H1S: Energy Systems and Distributed Generation (formerly ECE413H1)
Select	ECE320H1F: Fields and Waves	Select	ECE422H1S: Radio and Microwave Wireless Systems
Select	BME595H1F: Medical Imaging	Select	ECE463H1S: Electric Drives
Select	ECE424H1F: Microwave Circuits (formerly ECE524H1)		
Select	ECE520H1F: Power Electronics		
Select	ECE526H1F: Power System Protection and Automation		

Kernel Courses

Area 3: Analog & Digital Electronics

Select	ECE331H1F: Analog Electronics	Select	ECE334H1S: Digital Electronics
Select	ECE334H1F: Digital Electronics	Select	ECE412H1S: Analog Signal Processing Circuits (formerly ECE512H1)
Select	ECE424H1F: Microwave Circuits (formerly ECE524H1)	Select	ECE437H1S: VLSI Technology
Select	ECE430H1F: Analog Integrated Circuits (formerly ECE530H1)	Select	ECE532H1S: Digital Systems Design
Select	ECE446H1F: Sensory Communication		

Kernel Courses

Area 4: Control, Communications & Signal Processing

Select	ECE311H1F: Introduction to Control Systems	Select	ECE311H1S: Introduction to Control Systems
Select	ECE316H1F: Communication Systems	Select	ECE316H1S: Communication Systems
Select	BME445H1F: Neural Bioelectricity (formerly ECE445H1)	Select	BME331H1S: Physiological Control Systems
Select	BME595H1F: Medical Imaging	Select	ECE302H1S: Probability and Applications
Select	ECE302H1F: Probability and Applications	Select	ECE368H1S: Probabilistic Reasoning
Select	ECE410H1F: Linear Control Systems	Select	ECE411H1S: Adaptive Control and Reinforcement Learning
Select	ECE417H1F: Digital Communication	Select	ECE421H1S: Introduction to Machine Learning
Select	ECE421H1F: Introduction to Machine Learning	Select	ECE422H1S: Radio and Microwave Wireless Systems
Select	ECE431H1F: Digital Signal Processing	Select	ECE462H1S: Multimedia Systems
	ECE441H1F: Interfacing & Modulating the Nervous		

Evaluating a Profile

- Once your profile has been created, click the “Evaluate” button and review the profile

- The system automatically computes all possible alternatives to check if your profile meets both the ECE program and CEAB requirements*
  - The software will identify potential problems
  - The software will also determine whether you qualify for the CE or EE degree

*CEAB AU’s are reviewed and updated (where necessary) on an annual basis.

Make sure that you review your Main Profile to verify that these changes have not affected your requirements.

Saving a Profile

- After evaluating a profile, if you are satisfied with it, click the “**Save profile**” button
- If you wish to continue editing the profile, click on “**Edit profile**” button and continue editing
- Always remember that you have to “**Save**” the profile

Course List 20235

Session						
20219	APS100H1 F Orientation to Engineering	APS110H1 F Engineering Chemistry and Materials Science	APS111H1 F Engineering Strategies & Practice I	CIV100H1 F Mechanics	MAT186H1 F Calculus I	MAT188H1 F Linear Algebra
20221	APS105H1 S Computer Fundamentals	APS112H1 S Engineering Strategies & Practice II	ECE110H1 S Electrical Fundamentals	ECE191H1 S Introduction to Electrical and Computer Engineering	MAT187H1 S Calculus II	MIE100H1 S Dynamics
20229	ECE201H1 F Seminar Course: Electrical and Computer Engineering	ECE212H1 F Circuit Analysis	ECE241H1 F Digital Systems	ECE244H1 F Programming Fundamentals	MAT290H1 F Advanced Engineering Mathematics	MAT291H1 F Calculus III
20231	ECE216H1 S Signals and Systems	ECE221H1 S Electric and Magnetic Fields	ECE231H1 S Introductory Electronics	ECE243H1 S Computer Organization	ECE297H1 S Communication and Design	
20249	ECE302H1 F Probability and Applications	ECE314H1 F Fundamentals of Electrical Energy Systems	ECE320H1 F Fields and Waves	ECE335H1 F Introduction to Electronic Devices	JRE300H1 F Fundamentals of Accounting and Finance	
20251	BME331H1 S Physiological Control Systems	ECE361H1 S Computer Networks I	ECE368H1 S Probabilistic Reasoning	ECE462H1 S Multimedia Systems	JRE420H1 S People Management and Organizational Behaviour	
20259	ECE344H1 F Operating Systems	ECE461H1 F Internetworking	ECE472H1 F Engineering Economic Analysis & Entrepreneurship	ECE496Y1 Y Design Project	ITA240Y1 Y Italian Cinema	
20261	ECE496Y1 Y Design Project	ITA240Y1 Y Italian Cinema	ECE330H1 S Quantum and Semiconductor Physics	ECE422H1 S Radio and Microwave Wireless Systems	ECE568H1 S Computer Security	

ECE Requirements

Upper Year Courses

Kernel/Depth

Area 1	ECE335H1		
Area 2	ECE314H1	ECE320H1	ECE422H1
Area 5	ECE361H1	ECE462H1	ECE461H1
Area 6	ECE344H1		

You are eligible for either EE or CE designation.
Please select one ◉ **EE** ○ **CE**

Engineering Economics	ECE472H1			
Capstone	ECE496Y1			
Science/Math	ECE302H1			
Technical Electives	BME331H1	ECE330H1	ECE368H1	
HSS and CS	ITA240Y1(HSS)	ITA240Y1(HSS)	JRE420H1(HSS)	JRE300H1(CS)
Free Elective	ECE568H1			

3. Practical Experience Requirement	600 Hours Completed

Your Course Profiles

Your course selection profiles include:

- A Main Profile that will be used for your pre-registration
- Several supplementary profiles that you can experiment with (up to 30+ profiles)
- Ultimately, you must identify one of your profiles as your "**main**" profile
- **PRE-REGISTRATION DEADLINE: January 30, 2025 at 11:59pm EST**.
- Main Profiles will then be LOCKED until June 2025.

In July, **ECE courses** on valid "**main**" Magellan profiles will be uploaded to your ACORN timetable. **Non-ECE** courses will **not** be uploaded.

- *Due to course flexibility in our program, a conflict-free timetable is **not** guaranteed.*
- *When ACORN opens for registration, changes can be made to your timetable (if space is available).*

CEAB Requirements

- Canadian Engineering Accreditation Board
  - Established by the Canadian Council of Professional Engineers (CCPE) in 1965 to accredit undergraduate engineering programs
  - Ensures that academic requirements are met
  - Important for your eventual registration as a professional engineer

- CEAB Curriculum Content Requirements
  - Engineering Science (ES)
  - Engineering Design (ED)
  - Natural Science (NS)
  - Mathematics (MATH)
  - Complementary Studies (CS)

CEAB Requirements: Magellan Checks

2. CEAB Requirements

Categories	Minimum Requirement	Obtained	Projected	Outstanding Based on Projected
Total Accreditation Units	1870	1089.3	2053.8	OK
Mathematics	214.5	255.7	340.5	OK
Natural Science	200	181.1	294.5	OK
Mathematics and Natural Science Combined	462	436.8	635	OK
Engineering Science	247.5	422.4	795.3	OK
Engineering Design	247.5	140	336.6	OK
Engineering Science and Engineering Design Combined	990	562.4	1131.9	OK
Complementary Studies	240	90.1	286.9	OK

You have fulfilled all CEAB requirements

APS380H1 F: Introduction to Electric Vehicle Design

Students interested in the Electric Vehicle Design Certificate are required to take **APS380H1F**.

Enrolment: Students will need to apply and be approved to take the course.

All ECE students are eligible. However, due to limited space, enrollment priority will be given to students who have participated in relevant design teams, completed ECE314, have relevant PEY work and capstone projects.

APS380 is ideally taken in 4th year and will be *eligible for an out of department technical elective (OTE).*

Application: https://forms.office.com/r/1epMPc6G1p

Electives

- Complementary Studies (CS) Electives
  http://undergrad.engineering.utoronto.ca/academics-registration/electives/complementary-studies-cs-electives/

- Humanities & Social Science (HSS) Electives
  http://undergrad.engineering.utoronto.ca/academics-registration/electives/humanities-social-science-hss-electives/

- Ineligible Electives
  https://www.ece.utoronto.ca/undergraduate-students/course-and-timetables/#ineligible-electives

- Timetable Builder
  https://ttb.utoronto.ca/

How to get help/more info?

- **ECE Undergraduate Office: SFB600**
  Drop-In Hours: Monday to Friday (8:45 am – 4:30 pm)
  Email: askece@utoronto.ca ***(please include your name; student #; CE or EE program)***

- **Academic Calendar (FASE):** https://engineering.calendar.utoronto.ca/
- **ECE Undergraduate News / Announcements:** *Emailed to students at critical points in the term or posted on the ECE UG Quercus page*
- **Health & Wellness Supports in Engineering:** https://undergrad.engineering.utoronto.ca/advising-and-wellness/health-wellness/
- **Iris:** https://ececourses.ece.utoronto.ca/
- **Learning Strategist:** https://undergrad.engineering.utoronto.ca/advising-and-wellness/learning-skills-strategist/
- **Magellan Course Selection Software:** https://magellan.ece.toronto.edu/
- **Minors & Certificates (Engineering):** http://undergrad.engineering.utoronto.ca/academics-registration/minors-certificates/
- **NAVI Your UofT Resource Finder:** https://www.acorn.utoronto.ca/navi/
- **NSERC-UTEA and Faculty Summer Research Awards:** https://www.ece.utoronto.ca/undergraduate-students/undergraduate-research-awards/ *(updated in January for the upcoming summer)*
- **Scholarship Profile – Fill it out!:** https://portal.engineering.utoronto.ca/welcome.asp

Who Are We?

Leanne Dawkins
Manager and Student Advisor

Professor Olivier Trescases
Associate Chair, ECE Undergraduate Studies

Jennifer Lee
Undergraduate Administrative Coordinator

Karen Irving
Student Advisor

Mary Miceli
Student Advisor

Neena Peterson
Student Advisor (on leave)

Meera Puvitharan
Student Advisor