

1

Accreditation

From Engineers Canada:



- Engineers Canada accredits Canadian undergraduate programs in engineering. Students
 who successfully receive a degree from an accredited engineering program meet the
 academic requirements needed to become licensed with Canada's engineering regulators.
- Accredited engineering programs bring multiple benefits for both students and regulators:
 - Regular accreditation of programs fosters the continual improvement of education
 - Accreditation ensures that programs are meeting the high standards necessary for licensure
 - Degrees from accredited programs are accepted by engineering regulators nationwide and are also recognized by our international partners.

https://engineerscanada.ca/accreditation/about-accreditation



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Accreditation Criteria

- Graduate Attributes
- Continual Improvement Process
- Curriculum Content and Quality
- Policies for Admission, Counselling, Promotion and Graduation of Students
- Program Environment (Students, Faculty, Staff, Facilities, Financial Resources, Library, etc.)
- Additional Criteria (Title of Program, Options, etc.)



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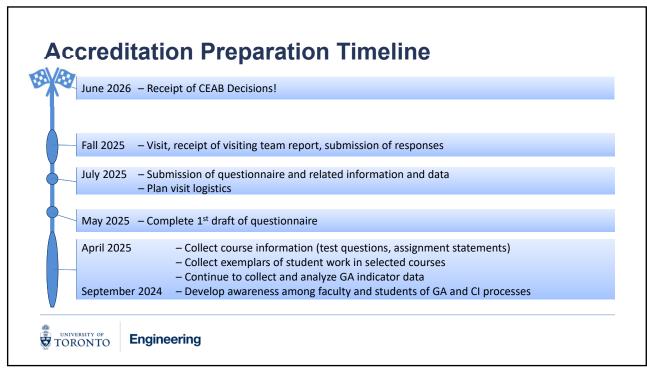
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Accreditation of U of T Engineering Programs

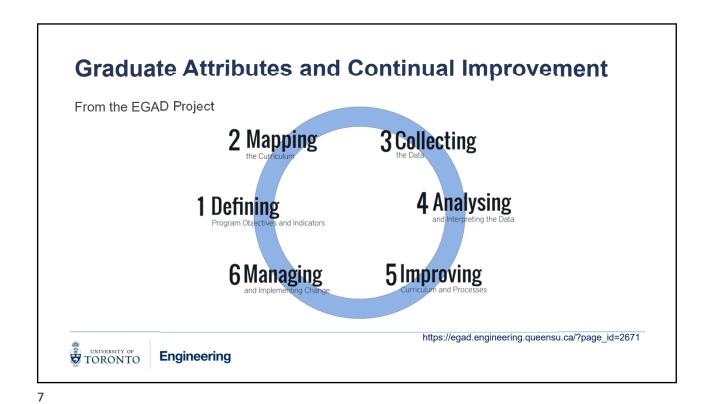
- All programs were accredited for the maximum 6-year period in 2019 (July 2019 – June 2025 + 1 year extension due to COVID)
- What is new this time?
 - Increased expectations for our implementation of the Graduate Attribute and Continual Improvement processes
 - Changes in U of T sessional dates impact number of teaching days
 - Changes in PEO licensure policies
 - Introduction of an online system for submission of information and data (replaces PDF and Excel files)



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Accreditation Preparation Timeline August 2024 - Continue to collect and submit GA indicator data to El GATO - Workshops to support applications for licensure EIT program ends summer, demonstration of pursuing licensure Preparation for Law and Ethics Exam, guidance in completing professional experience – Working Group to: Develop guidance for development of GA Indicator assessments and analysis of data September 2023 Develop guidance to revise and implement CI Plans September 2023 - Approval of curriculum changes for 2024-25 - Approval of revised Graduate Attribute Indicators August 2023 - Review AU counts for existing curriculum, identify changes required - Review licensure status of instructors - Review and collect GA indicator data, submit to El GATO v.2, backfill where possible April 2023 - Review existing Continual Improvement Plan design and implementation June 2023 - Revision, testing, and roll-out of El GATO v.2 April 2023 - Initial meetings of the Accreditation Preparation Working Group TORONTO **Engineering**



Graduate Attributes

From the EGAD Project

Set by CEAB
Knowledge Base
Problem Analysis
Investigation
Design
Engineering Tools
Individual and Teamwork

Individual and Teamwork

Set by a Faculty/Program
Measurable and meaningful descriptions of aspects of the graduate attributes in the context of the program

Set by an Instructor
Measurable and meaningful descriptions of the indicator, in the context of the program

Set by an Instructor
Measurable and meaningful descriptions of the indicator, in the context of the program of student performance

Intlps://legad.engineering.queensu.ca/?page_id=2671

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Graduate Attributes

- Graduate Attributes and Continual Improvement
 From the Engineering Graduate Attribute Development (EGAD) Project
 - Programs set their own requirements and priorities
 - 2 Programs develop their own indicators for Graduate Attributes
 - 3 Programs map indicators to curriculum
 - 4 Instructors assess indicators, programs collect data
 - Programs process and interpret data, working with stakeholders to make meaning and gain insight
 - Programs use insights and meaning to improve programs and processes

https://egad.engineering.queensu.ca/?page_id=2671



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9

Curriculum Content and Quality

- · All students must meet all curriculum content and quality criteria
- Accreditation Units (AU) or alternatives are used to measure curriculum content in 5 components (1 AU = 1 hr lecture = 2 hr lab/tutorial)
 - Mathematics
 - Natural sciences
 - Engineering science (instructor must be P.Eng., L.L., or EIT*)
 - Engineering design (instructor must be P.Eng. or L.L.)
 - Complementary studies

*EIT program ends Summer 2023



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