



Alternate offer BENG to BSc Earth and Atmospheric Science

Lassonde Academic Advising Team ~2023



Agenda

1


Criteria to
transfer to
engineering

2

What courses
can I take that
will transfer to
ENG

3

How and when
to apply



What are the minimum academic requirements for the program?

1. Minimum 24 credits completed at York University
2. Minimum 5.0 (C+) overall cumulative GPA
3. Completion of the following prerequisites with a grade of 70% or above (within the last five years) at a high school level or above:
Physics, Chemistry, Calculus, Advanced Functions
4. University prerequisites should be at a grade of C+ or higher

<https://lassonde.yorku.ca/student-life/lassonde-program-change-information>

Completing Prerequisites

Complete prerequisites (Physics, Chemistry, Calculus, Advanced Functions) with a grade of 70% or above (within the last five years) from high school or ilc.org

You can also complete the prerequisites at York University:

4U Chemistry	CHEM 1500 3.0
4U Physics	PHYS 1510 3.0
4U Calculus	Math 1520 3.0
4U Advanced Functions	Math 1510 6.0

<https://lassonde.yorku.ca/student-life/lassonde-program-change-information>

How will first-year courses transfer from EATS to ENG?

Earth and Atmospheric	Advising Notes	Engineering program
CHEM 1000 3.00 AND CHEM 1001 3.0	Must take both Chem 1000 and Chem 1001 to be exempt from taking CHEM 1100 Approved Course Substitution	CHEM 1100 4.00 Chemistry and Materials Science for Engineers
EECS 1541 3.00 or EECS 1011 3.00	EECS 1011 3.0 will be exempt from taking:	EECS 1011 3.00 Computational Thinking Through Mechatronics
ESSE 1010 3.00 or ESSE 1012 3.00	Approved Course Substitution will be exempt from taking: could be used as a science elective for Computer/ Electrical/ Software Engineering	ESSE 1012 3.00 The Earth Environment
ESSE 1011 3.00	Could be used as a science elective for Computer/ Electrical/Software Engineering	ESSE 1011 3.00 Introduction to Atmospheric Science
MATH 1013 3.00	Exact requirement	MATH 1013 3.00 Applied Calculus I
MATH 1014 3.00	Exact requirement	MATH 1014 3.00 Applied Calculus II
MATH 1025 3.00	Exact requirement	MATH 1025 3.00 Applied Linear Algebra
PHYS 1011 3.00	Approved Course Substitution will be exempt from taking:	PHYS 1800 3.00 Engineering Mechanics
PHYS 1012 3.00 * In winter 2024 you have to take PHYS 1801	Approved Course Substitution will be exempt from taking:	PHYS 1801 3.00 Electricity, Magnetism and Optics for Engineers
ELECTIVE	Could take MATH/EECS 1019 and would be exempt from taking	EECS 1028 3.00 (needed for Computer, Electrical or Software) Discrete Mathematics for Engineers

Year 1 Courses

EARTH & ATMOSPHERIC SCIENCE

CHEM 1000 3.00 or CHEM 1001 3.00	Chemical Structure or Chemical Dynamics
EECS 1541 3.00 or EECS 1011 3.00	Introduction to Computing for the Physical Sciences or Computational Thinking through Mechatronics
ESSE 1010 3.00 or ESSE 1012 3.00	The Dynamic Earth and Space Geodesy or The Earth Environment
ESSE 1011 3.00	Introduction to Atmospheric Science
MATH 1013 3.00	Applied Calculus I
MATH 1014 3.00	Applied Calculus II
MATH 1025 3.00	Applied Linear Algebra
PHYS 1011 3.00	Physics I
PHYS 1012 3.00	Physics II
Non-Science Requirement General Education	

Bachelor of Engineering

CHEM 1100 4.00	Chemistry and Materials Science for Engineers
EECS 1011 3.00	Computational Thinking Through Mechatronics
EECS 1021 3.00	Object Oriented Programming from Sensors to Actuators
EECS 1028 3.00	Discrete Mathematics for Engineers
ENG 1101 4.00	Renaissance Engineering 1: Ethics, Communication and Problem Solving
ENG 1102 4.00	Renaissance Engineering 2: Engineering Design Principles
ESSE 1012 3.00	The Earth Environment
MATH 1013 3.00	Applied Calculus I
MATH 1014 3.00	Applied Calculus II
MATH 1025 3.00	Applied Linear Algebra
PHYS 1800 3.00	Engineering Mechanics
PHYS 1801 3.00	Electricity, Magnetism and Optics for Engineers

Useful Enrolling Links

<https://lassonde.yorku.ca/student-life/lassonde-program-change-information>

<https://lassonde.yorku.ca/student-life>

<https://lassonde.yorku.ca/student-life/frequently-asked-questions>

<https://lassonde.yorku.ca/student-life/connect-with-an-academic-advisor>



Academic Advising
Student Welcome and Support Centre
Lassonde School of Engineering
York University

**DROP-IN & APPOINTMENT (QLess
App)**

ask@lassonde.yorku.ca

<https://lassonde.yorku.ca/studenthub>

Instagram: @Lassonde_Ateam