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| LASSONDE SCHOOL OF ENGINEERING \| YORK UNIVERSITÉ UNIVERSITY | **DEGREE CHECKLIST 2021-2022** | **BACHELOR OF SCIENCE (BSc Hons)<br>EARTH & ATMOSPHERIC SCIENCE<br>Honours - Atmospheric Science Stream** |
| | **NAME** | |
| | **STUDENT #** | |

Students are strongly advised to refer to online Academic Calendars before enrolling into courses: http://calendars.registrar.yorku.ca/

| | | COURSES | | CREDITS EARNED | GRADE |
|---|---|---|---|---|---|
| **First Year Courses** | | | | | |
| | ☐ | LE/EECS 1541 3.00<br>***or***<br>LE/EECS 1011 3.00 | Introduction to Computing for the Physical Sciences<br>***or***<br>Computational Thinking through Mechatronics | | |
| | ☐ | LE/ESSE 1011 3.00 | Introduction To Atmospheric Science | | |
| | ☐ | SC/MATH 1013 3.00 | Applied Calculus I | | |
| | ☐ | SC/MATH 1014 3.00 | Applied Calculus II | | |
| | ☐ | SC/MATH 1025 3.00 | Applied Linear Algebra | | |
| | ☐ | SC/PHYS 1011 3.00 | Physics I | | |
| | ☐ | SC/PHYS 1012 3.00 | Physics II | | |
| **3.00 Elective Credits** | ☐ | | | | |
| **3.00 Credits - Non-Science Requirement** | ☐ | | | | |
| **3.00 Credits - Non-Science Requirement** | ☐ | | | | |

**Note:** For students transferring into the EATS program, the following are acceptable substitutes for the 6 credit foundational science (physics) requirement: SC/PHYS 1800 3.00 and SC/PHYS 1801 3.00; or SC/ISCI 1310 6.00; or SC/ISCI 1301 3.00 and SC/ISCI 1302 3.00; or any of the following with a minimum grade of C in each course: SC/PHYS 1410 6.00; SC/PHYS 1420 6.00; SC/PHYS 1411 3.00 and SC/PHYS 1412 3.00; SC/PHYS 1421 3.00 and SC/PHYS 1422 3.00.

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| **Second Year Courses** | | | | | |
| | ☐ | LE/EECS 2501 1.00 | Fortran and Scientific Computing | | |
| | ☐ | LE/ESSE 2011 3.00 Introduction to Physical Meteorology<br>*or*<br>3.00 credits from LE/ESSE courses at the 3000 level or higher | | | |
| | ☐ | LE/ESSE 2012 3.00 | Introduction to Dynamic Meteorology | | |
| | ☐ | LE/ESSE 2030 3.00 | Geophysics and Space Science | | |
| | ☐ | LE/ESSE 2470 3.00<br>***or***<br>LE/CIVL 2210 3.00 | Introduction to Continuum Mechanics<br>***or***<br>Fluid Mechanics | | |
| | ☐ | SC/MATH 2015 3.00 | Applied Multivariate & Vector Calculus | | |
| | ☐ | SC/MATH 2271 3.00 | Differential Equations for Scientists and Engineers | | |
| | ☐ | SC/PHYS 2020 3.00 | Electricity and Magnetism | | |
| **3.00 Credits - Non-Science Requirement** | ☐ | | | | |
| **3.00 Credits - Non-Science Requirement** | ☐ | | | | |

| | | COURSES | | CREDITS EARNED | GRADE |
|---|---|---|---|---|---|
| **Third Year Courses** | | | | | |
| | ☐ | LE/ESSE 3030 3.00 | Atmospheric Radiation and Thermodynamics | | |
| | ☐ | LE/ESSE 3040 3.00 | Atmospheric Dynamics I | | |
| **Electives** | ☐ | | | | |
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| **Fourth Year Courses** | | | | | |
| | ☐ | LE/ESSE 4050 3.00 | Synoptic Meteorology I | | |
| | ☐ | LE/ESSE 4051 3.00 | Synoptic Meteorology II | | |
| | ☐ | LE/ESSE 4120 3.00 | Cloud Physics and Radar Meteorology | | |
| | ☐ | LE/ESSE 4130 3.00 | Atmospheric Dynamics II | | |
| | ☐ | LE/ESSE 4140 3.00 | Numerical Weather Prediction | | |
| | ☐ | LE/ESSE 4230 3.00 | Remote Sensing of the Atmosphere | | |
| **Electives** | ☐ | | | | |
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**A. General Education Requirement:**
*non-science requirement:* 12 credits from the approved list of courses and subject areas in your Academic Calendar;
*mathematics:* SC/MATH 1013 3.00; SC/MATH 1014 3.00;
*computer science:* LE/EECS 1011 3.00 or LE/EECS 1541 3.00;
*foundational science: SC/PHYS 1011 3.0 and SC/PHYS 1012 3.0 (see approved course substitutes for transfer students;*
**B. Major Requirements** the EATS program core, as specified above (19 credits);
**C. Science breadth:**
Science breadth: satisfied by above requirements.
**D. Upper level requirement:**
A minimum of 42 credits at the 3000 level or higher.
E**. Additional elective credits, as required,** for an overall total of 120 credits.
**F. Standing requirements:** a minimum cumulative credit-weighted grade point average of 5.00 (C+) over all courses completed.

All Honours BSc degree candidates are encouraged to complete a non-credit industrial internship (normally salaried). This provides experience in a four-month to 12-month placement, normally after the third year of study.