



**DEGREE CHECKLIST  
2022-2023**

**BACHELOR OF SCIENCE (BSc)  
EARTH & ATMOSPHERIC SCIENCE**

**NAME**

**STUDENT #**

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

			<b>COURSES</b>	<b>CREDITS EARNED</b>	<b>GRADE</b>
<b>First Year Courses</b>					
	<input type="checkbox"/>	SC/CHEM 1000 3.00 <i>or</i> SC/CHEM 1001 3.00	Chemical Structure <i>or</i> Chemical Dynamics		
	<input type="checkbox"/>	LE/EECS 1541 3.00 <i>or</i> LE/EECS 1011 3.00	Introduction to Computing for the Physical Sciences <i>or</i> Computational Thinking through Mechatronics		
	<input type="checkbox"/>	LE/ESSE 1010 3.00 <i>or</i> LE/ESSE 1012 3.00	The Dynamic Earth and Space Geodesy <i>or</i> The Earth Environment		
	<input type="checkbox"/>	LE/ESSE 1011 3.00	Introduction To Atmospheric Science		
	<input type="checkbox"/>	SC/MATH 1013 3.00	Applied Calculus I		
	<input type="checkbox"/>	SC/MATH 1014 3.00	Applied Calculus II		
	<input type="checkbox"/>	SC/MATH 1025 3.00	Applied Linear Algebra		
	<input type="checkbox"/>	SC/PHYS 1011 3.00	Physics I		
	<input type="checkbox"/>	SC/PHYS 1012 3.00	Physics II		
<b>3.00 Credits - Non-Science Requirement</b>	<input type="checkbox"/>				
<p><b>Note:</b> 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.</p>					
<b>Second Year Courses</b>					
	<input type="checkbox"/>	LE/EECS 2501 1.00	Fortran and Scientific Computing		
	<input type="checkbox"/>	LE/ESSE 2010 3.00	Introductory Meteorology		
	<input type="checkbox"/>	LE/ESSE 2020 3.00	Introduction to Climate Science		
	<input type="checkbox"/>	LE/ESSE 2030 3.00	Planetary Geophysics		
	<input type="checkbox"/>	LE/ESSE 2470 3.00 <i>or</i> LE/CIVL 2210 3.00	Introduction to Continuum Mechanics <i>or</i> Fluid Mechanics		
	<input type="checkbox"/>	SC/MATH 2015 3.00	Applied Multivariate & Vector Calculus		
	<input type="checkbox"/>	SC/MATH 2271 3.00	Differential Equations for Scientists and Engineers		
<i>Second year courses continued on page 2</i>					
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Second Year Courses Continued				CREDITS EARNED	GRADE
	<input type="checkbox"/>	SC/GEO 2420 3.00 or SC/MATH 2565 3.00 or SC/MATH 2930 3.00	Introductory Statistical Analysis in Geography or Introduction to Applied Statistics or Introductory Probability and Statistics		
	<input type="checkbox"/>	SC/PHYS 2020 3.00	Electricity and Magnetism		
3.00 Credits - Non-Science Requirement	<input type="checkbox"/>				
3.00 Credits - Non-Science Requirement	<input type="checkbox"/>				
Third Year Courses					
	<input type="checkbox"/>	LE/ESSE 3600 3.00	Geographical Information Systems (GIS) and Spatial Analysis		
9.00 credits from: LE/ESSE 3020 3.00, LE/ESSE 3030 3.00, LE/ESSE 3040 3.00, SC/MATH 3241 3.00	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
9.00 additional credits from ESSE courses at 3000 level or higher	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
3.00 Credits - Non-Science Requirement	<input type="checkbox"/>				
Additional elective credits, preferably from LE/ESSE courses, for a minimum of 90 credits	<input type="checkbox"/>				
	<input type="checkbox"/>				
<p><b>A. General Education Requirement:</b>  <i>non-science requirement:</i> 12 credits from the approved list of courses and subject areas in your Academic Calendar;  <i>mathematics:</i> SC/MATH 1013 3.00; SC/MATH 1014 3.00;  <i>computer science:</i> LE/EECS 1011 3.00 or LE/EECS 1541 3.00;  <i>foundational science:</i> SC/PHYS 1010 6.00, or both of: SC/PHYS 1011 3.00 and SC/PHYS 1012 3.00.</p> <p><b>B. Major Requirements</b> the EATS program core, as specified above (19 credits);</p> <p><b>C. Science breadth:</b>  Science breadth: satisfied by above requirements.</p> <p><b>D. Upper level requirement:</b>  A minimum of 18 credits at the 3000 level or higher.</p> <p><b>E. Additional elective credits, as required,</b> for a minimum overall total of 90 credits.</p> <p><b>F. Standing requirements:</b> a minimum overall grade point average of 4.00 (C).</p>					
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