



**DEGREE CHECKLIST  
2019-2020**

**BACHELOR OF SCIENCE (BSc Hons)  
EARTH & ATMOSPHERIC SCIENCE  
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/>

	<b>COURSES</b>	<b>CREDITS EARNED</b>	<b>GRADE</b>
<b>First Year Courses</b>			
	<input type="checkbox"/> LE/EECS 1541 3.00 Introduction to Computing for the Physical Sciences <b>or</b> <input type="checkbox"/> LE/EECS 1011 3.00 Computational Thinking through Mechatronics		
	<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 1010 6.00 Physics <b>or both</b> <input type="checkbox"/> SC/PHYS 1800 3.00 and SC/PHYS 1801 3.00 Engineering Mechanics and Electricity, Magnetism and Optics for Engineers		
<b>6 credits of Non-Science and/or 3 credits Electives</b>	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		
<b>Second Year Courses</b>			
	<input type="checkbox"/> LE/EECS 2501 1.00 Fortran and Scientific Computing		
	<input type="checkbox"/> LE/ESSE 2011 3.00 Introduction to Physical Meteorology		
	<input type="checkbox"/> LE/ESSE 2012 3.00 Introduction to Dynamic Meteorology		
	<input type="checkbox"/> LE/ESSE 2030 3.00 Geophysics and Space Science		
	<input type="checkbox"/> LE/ESSE 2470 3.00 Introduction to Continuum Mechanics <b>or</b> <input type="checkbox"/> LE/CIVL 2210 3.00 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		
	<input type="checkbox"/> SC/PHYS 2020 3.00 Electricity and Magnetism		
<b>6 credits of Non-Science and/or 3 credits Electives</b>	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		

	COURSES	CREDITS EARNED	GRADE
<b>Third Year Courses</b>			
	<input type="checkbox"/> LE/ESSE 3030 3.00 Atmospheric Radiation and Thermodynamics		
	<input type="checkbox"/> LE/ESSE 3040 3.00 Atmospheric Dynamics I		
	<input type="checkbox"/>		
<b>Electives (or Non-Science)</b>	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		
<b>Fourth Year Courses</b>			
	<input type="checkbox"/> LE/ESSE 4050 3.00 Synoptic Meteorology I		
	<input type="checkbox"/> LE/ESSE 4051 3.00 Synoptic Meteorology II		
	<input type="checkbox"/> LE/ESSE 4120 3.00 Cloud Physics and Radar Meteorology		
	<input type="checkbox"/> LE/ESSE 4130 3.00 Atmospheric Dynamics II		
	<input type="checkbox"/> LE/ESSE 4140 3.00 Numerical Weather Prediction		
	<input type="checkbox"/> LE/ESSE 4230 3.00 Remote Sensing of the Atmosphere		
<b>Electives (or Non-Science)</b>	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		
<p><b>A. General Education Requirement:</b>  <i>non-science requirement: 12 credits;</i>  <i>mathematics: SC/MATH 1013 3.00; SC/MATH 1014 3.00;</i>  <i>computer science: LE/EECS 1541 3.00 or LE/ESSE 1011 3.00;</i>  <i>foundational science: SC/PHYS 1010 6.00 or both of SC/PHYS 1800 3.00 and SC/PHYS 1801 3.00.</i></p> <p><b>B. Major Requirements:</b> the ESSE 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 42 credits at the 3000 level or above.</p> <p><b>E. Additional elective credits, as required,</b> for an overall total of 120 credits</p>			
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.			
<b>TOTAL CREDITS &amp; CGPA (minimum overall GPA of 5.00 required to graduate in a BSc Honours program)</b>			
<b>BSc Hons, EATS - Atmospheric Science</b>			
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