



**DEGREE CHECKLIST
2017-2018**

**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/>

PREREQUISITES/COREQUISITES	COURSES	CREDITS EARNED	GRADE
First Year Courses			
	<input type="checkbox"/> LE/EECS 1541 3.00 Introduction to Computing for the Physical Sciences <input type="checkbox"/> or 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 <input type="checkbox"/> or both SC/PHYS 1800 3.00 and SC/PHYS 1801 3.00 Engineering Mechanics and Electricity, Magnetism and Optics for Engineers		
6 credits of Non-Science and/or 3 credits Electives	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		
Second Year Courses			
	<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 2030 3.00 Geophysics and Space Science		
	<input type="checkbox"/> LE/ESSE 2470 3.00 Introduction to Continuum Mechanics <input type="checkbox"/> or 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		
6 credits of Non-Science and/or 3 credits Electives	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		

	COURSES		CREDITS EARNED	GRADE
Third Year Courses				
	<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"/>	SC/MATH 3241 3.00 Numerical Methods I		
Electives (or Non-Science)	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
Fourth Year Courses				
	<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		
Electives (or Non-Science)	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
<p>A. General Education Requirement: <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. Major Requirements: the ESSE program core as specified above (19 credits);</p> <p>C. Science breadth: Science breadth: satisfied by above requirements.</p> <p>D. Upper level requirement: a minimum of 42 credits at the 3000 level or above.</p> <p>E. Additional elective credits, as required, 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.				
TOTAL CREDITS & CGPA (minimum overall GPA of 5.00 required to graduate in a BSc Honours program)				
BSc Hons, EATS - Atmospheric Science				
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