



**DEGREE CHECKLIST
2018-2019**

**BACHELOR OF SCIENCE (BSc Spec Hons)
EARTH & ATMOSPHERIC SCIENCE
Specialized Honours (Geomatics 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 1012 3.00 Net-Centric Introduction to Computing		
	<input type="checkbox"/>	LE/EECS 1541 3.00 Introduction to Computing for the Physical Sciences		
	<input type="checkbox"/>	LE/ESSE 1010 3.00 The Dynamic Earth and Space Geodesy		
	<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		
3 credits of Non-Science (or Electives)	<input type="checkbox"/>			
Second Year Courses				
	<input type="checkbox"/>	LE/ESSE 2030 3.00 Geophysics and Space Science		
	<input type="checkbox"/>	LE/ESSE 2615 3.00 Fundamentals of Geomatics Engineering		
	<input type="checkbox"/>	LE/ESSE 2620 3.00 Fundamentals of Surveying		
	<input type="checkbox"/>	LE/ESSE 2630 3.00 Field Surveys		
	<input type="checkbox"/>	LE/ESSE 2640 3.00 Adjustment Calculus		
	<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/MATH 2930 3.00 Introductory Probability and Statistics		
	<input type="checkbox"/>	SC/PHYS 2020 3.00 Electricity and Magnetism		
3 credits of Non-Science (or Electives)	<input type="checkbox"/>			

NOTES

PREREQUISITES/COREQUISITES	COURSES	CREDITS EARNED	GRADE
Third Year Courses			
	<input type="checkbox"/> LE/ESSE 3600 3.00 Geographical Information Systems (GIS) and Spatial Analysis		
	<input type="checkbox"/> LE/ESSE 3610 3.00 Geodetic Concepts		
	<input type="checkbox"/> LE/ESSE 3650 3.00 Photogrammetry		
	<input type="checkbox"/> LE/ESSE 3670 3.00 Global Navigation Satellite Systems		
	<input type="checkbox"/> LE/ESSE 4020 3.00 Time Series and Spectral Analysis		
	<input type="checkbox"/> LE/ESSE 4220 3.00 Remote Sensing of the Earth's Surface		
6 credits of Non-Science (or Electives)	<input type="checkbox"/>		
	<input type="checkbox"/>		
6 Credits from the list below (toward a total of 24 credits from the list): LE/ESSE 3630 3.00, LE/ESSE 3640 3.00, LE/ESSE 3660 3.00, LE/ESSE 4000 3.00, LE/ESSE 4000 6.00, LE/ESSE 4615 3.00, LE/ESSE 4620 3.00, LE/ESSE 4630 3.00, LE/ESSE 4640 3.00, LE/ESSE 4650 3.00, LE/ESSE 4660 3.00, LE/ESSE 4670 3.00, LE/ESSE 4680 3.00, LE/ESSE 4690 3.00, LE/ESSE 4695 3.00	<input type="checkbox"/>		
	<input type="checkbox"/>		
Fourth Year Courses			
	<input type="checkbox"/> LE/ESSE 4600 3.00 Geographical Information Systems (GIS) and Data Integration		
18 Additional Credits from the list below (for a total of 24 credits from the list): LE/ESSE 3630 3.00, LE/ESSE 3640 3.00, LE/ESSE 3660 3.00, LE/ESSE 4000 3.00, LE/ESSE 4000 6.00, LE/ESSE 4615 3.00, LE/ESSE 4620 3.00, LE/ESSE 4630 3.00, LE/ESSE 4640 3.00, LE/ESSE 4650 3.00, LE/ESSE 4660 3.00, LE/ESSE 4670 3.00, LE/ESSE 4680 3.00, LE/ESSE 4690 3.00, LE/ESSE 4695 3.00	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		
	<input type="checkbox"/>		
9 Elective credits (or Non-Science)	<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;</i> <i>foundational science: SC/PHYS 1010 6.00.</i></p> <p>B. Major Requirements: (as stated on the checklist above)</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 9 elective credits, as required, for an overall total of 120 credits.</p>			
All Honours BSc degree candidates are encouraged to participate in the Coop Program or 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)			
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