	DEGREE CHECKLIST 2016-2017	**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					
	☐	LE/EECS 1012 3.00	Net-Centric Introduction to Computing		
	☐	LE/EECS 1541 3.00	Introduction to Computing for the Physical Sciences		
	☐	LE/ESSE 1010 3.00	The Dynamic Earth and Space Geodesy		
	☐	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 1010 6.00	Physics		
3 credits of Non-Science (or Electives)	☐				
Second Year Courses					
	☐	LE/ESSE 2030 3.00	Geophysics and Space Science		
	☐	LE/ESSE 2615 3.00	Fundamentals of Geomatics Engineering		
	☐	LE/ESSE 2620 3.00	Fundamentals of Surveying		
	☐	LE/ESSE 2630 3.00	Field Surveys		
	☐	SC/MATH 2015 3.00	Applied Multivariate & Vector Calculus		
	☐	SC/MATH 2271 3.00	Differential Equations for Scientists and Engineers		
	☐	SC/MATH 2930 3.00	Introductory Probability and Statistics		
	☐	SC/PHYS 2020 3.00	Electricity and Magnetism		
	☐	LE/ESSE 3620 3.00	Adjustment Calculus		
3 credits of Non-Science (or Electives)	☐				

NOTES

PREREQUISITES/COREQUISITES	COURSES			CREDITS EARNED	GRADE
Third Year Courses					
	☐	LE/ESSE 3600 3.00	Geographical Information Systems (GIS) and Spatial Analysis		
	☐	LE/ESSE 3610 3.00	Geodetic Concepts		
	☐	LE/ESSE 3650 3.00	Photogrammetry		
	☐	LE/ESSE 4020 3.00	Time Series and Spectral Analysis		
	☐	LE/ESSE 4220 3.00	Remote Sensing of the Earth's Surface		
	☐	LE/ESSE 4610 3.00	Global Positioning Systems		
6 credits of Non-Science (or Electives)	☐				
	☐				
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	☐				
	☐				
Fourth Year Courses					
	☐	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	☐				
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	☐				
9 Elective credits (or Non-Science)	☐				
	☐				
	☐				

A. General Education Requirement:
non-science requirement: 12 credits;
mathematics: SC/MATH 1013 3.00; SC/MATH 1014 3.00;
computer science: LE/EECS 1541 3.00;
foundational science: SC/PHYS 1010 6.00.
B. Major Requirements: (as stated on the checklist above)
C. Science breadth:
Science breadth: satisfied by above requirements.
D. Upper level requirement:
A minimum of 42 credits at the 3000 level or above.
E. Additional 9 elective credits, as required, for an overall total of 120 credits.

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)		