



**DEGREE CHECKLIST
2020-2021**

**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/>

	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 1011 3.00 Physics I		
	<input type="checkbox"/> SC/PHYS 1012 3.00 Physics II		
<p>Note: 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>			
3 credits of Non-Science Requirements	<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 Requirements	<input type="checkbox"/>		
BSc Spec Hons, EATS - Geomatics Science			Page 1 of 2

	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	
3 credits of Non-Science Requirements	<input type="checkbox"/>			
3 credits of Non-Science Requirements	<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	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			

A. General Education Requirement:
non-science requirement: 12 credits;
mathematics: SC/MATH 1013 3.00; SC/MATH 1014 3.00;
computer science: LE/EECS 1011 3.00 or LE/EECS 1541 3.00;
foundational science: SC/PHYS 1011 3.0 and SC/PHYS 1012 3.0 (see approved course substitutes for transfer students);

B. Major Requirements the EATS program core, as specified above (19 credits);

C. Science breadth:
 Science breadth: satisfied by above requirements.

D. Upper level requirement:
 A minimum of 42 credits at the 3000 level or higher.

E. Additional elective credits, as required, for an overall total of 120 credits.

F. Standing requirements: a minimum cumulative credit-weighted grade point average of 5.00 (C+) over all courses completed.

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)