

FACULTY OF SCIENCE, APPLIED SCIENCE, & ENGINEERING

Degree Checklist—BSc. Mathematics and Economics

For students declaring major Fall 2023 or later



Saint John

GENERAL INFORMATION				TOTAL DEGREE CREDIT HOURS (CH): 138			
FIRST NAME:		LAST NAME:		STUDENT ID:			
REQUIRED COURSES — 99 CH							
<input type="checkbox"/>	MATH 1003 – Intro Calculus I	3ch	<input type="checkbox"/>	STAT 4793—Prob and Math Stats II	3ch		
<input type="checkbox"/>	MATH 1013 – Intro Calculus II	3ch	<input type="checkbox"/>	CHOOSE TWO ² : STAT 3703-Exp.Design; STAT 4043-Sample Survey Theory; STAT 4243-Statistical Comp; STAT 4703-Regression Analysis			
<input type="checkbox"/>	MATH 1503 – Linear Algebra I	3ch	<input type="checkbox"/>	ECON 2013—Intermediate Microeconomics	3ch		
<input type="checkbox"/>	MATH 2203 – Discrete Mathematics	3ch	<input type="checkbox"/>	ECON 2023—Intermediate Economics	3ch		
<input type="checkbox"/>	MATH 2513 – Multivariate Calculus	4ch	<input type="checkbox"/>	ECON 3013—Microeconomics I	3ch		
<input type="checkbox"/>	MATH 2523 – Differential Equations and Series	3ch	<input type="checkbox"/>	ECON 3023—Macroeconomics I	3ch		
<input type="checkbox"/>	MATH 3303— Operations Research I	3ch	<input type="checkbox"/>	1st Year Science ³	LEC (18ch)	LAB (8ch)	
<input type="checkbox"/>	CHOOSE THREE ¹ : MATH 3073-Partial Differential Equations; MATH 3243-Complex Analysis; MATH 3503-Differential Equations for Engineers; MATH 3753-Applications of Mathematical Models; MATH 3733-Abstract Algebra	9ch	<input type="checkbox"/>	1st Year Science ³			
<input type="checkbox"/>		STAT 1793 – Intro to Probability & Statistics I	3ch	<input type="checkbox"/>	1st Year Science ³		
<input type="checkbox"/>		STAT 2793 – Intro to Probability & Statistics II	3ch	<input type="checkbox"/>			
<input type="checkbox"/>	STAT 3793 – Prob and Math Stats I	3ch	<input type="checkbox"/>	One of: CS 1073/CS1003/CMPE 1003 ⁵	4ch		

ECONOMICS REQUIREMENT ⁴ — 21 CH			
<input type="checkbox"/>	ECON 1013—Intro to Microeconomics	3ch	<input type="checkbox"/>
<input type="checkbox"/>	ECON 1023—Intro to Macroeconomics	3ch	<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>

FREE ELECTIVES — 18 CH			
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>

ADDITIONAL DEGREE REQUIREMENTS	
<input type="checkbox"/>	12 CH of ALL courses must have significant written requirement (indicated by [W] annotation in course calendar)

Notes
<p>1. Students interested in graduate programs are recommended to take MATH 3733.</p> <p>2. Credit cannot be retained for both STAT 4704 and ECON 4645.</p> <p>3. Combinations must include minimum 18ch lecture and 8ch of options: BIOL1105/1205/1017, CHEM1041/1046/1072/1077 (CHEM1872/1877), GEOL1044/1074, PHYS1011/1012/1021/1022.</p> <p>4. ECON 1013 and ECON 1023 not required for degree but are pre-requisites to required courses; ECON 3665 is recommended; 9ch of ECON Requirement may be substituted with other courses—see Academic Calendar, Bachelor of Business Administration, Section XI, "Substitutes for Economics Courses."</p> <p>5. Students declaring their major before Fall 2023 may take an alternative CS course to fulfill the CS requirement, worth min. 3ch. CS 1303 cannot count towards this requirement.</p> <p>Credit cannot be retained for MATH 1853.</p>

ATTENTION: Students are responsible for their own academic choices and should always consult the Academic Calendar prior to academic decisions. This checklist is an informal guide to the major. Course selections should always be checked and approved with the academic advisor. If irregularities occur the Academic Calendar is the final source for decisions. Electives must include any general degree requirements. See UNB Calendar for regulations governing course selection.

