## MATH B.S. - OPTION I: Applied Mathematics Option (for majors from the 2018-2019 catalogue year)

Student		CI	N	ADVISOR	
GE Requirements (39-42 units)	Term	Grade	Course Type	Major Requirement (81 Units)	rm Grade
Block A: Basic Subjects (9)				Lower Division Required Courses (33)	
A1 Oral Communication Course =				MATH 2170 (3) or CS 2011 (3)	
A2 Written Communication Course =				MATH 2110 Calculus I (4)	
A3 Critical Thinking & composition				MATH 2120 Calculus II (4)	
Course = American Institutions (6)				MATH 2130 Calculus III (3)	
US History course =				NATTY 0150 D:22 .: 15 .: (2)	
OS History course –				MATH 2150 Differential Equations (3)	
Ha C	+			MATH 2450 Foundations of Mathematics I (3)	
US Constitution course =				MATH 2550 Introduction to Linear Algebra (3)	
Block B: Natural Sciences (0)				PHYS 2100 General Physics I (5)	
Fulfilled by major requirements				BIOL 1100 - Principles of Biology I (5)	
				Upper Division Required Courses (7)	
Block C: Arts and Humanities (6)				MATH 3450 Foundations of Mathematics II (4)	
C1 Arts Course =				MATH 4650 Analysis I (3)	
C2 Humanities Course =				Directive Elective Course in Related Areas* (3)	
Block D: Social Sciences (6)				Course =	
D1 Course =				Option Specific Required Courses (25-27)	
				MATH 4570 - Linear Algebra (3)	
D2 Course =				MATH 4680 Introduction to Complex Analysis (3)	
Die le E. L'éden - Le mine - et l'éde De		(2)		MATH 4740 Theory of Probability (3)	
Block E: Lifelong Learning and Self De	velopme	ent (3)		MATH 4900 - Senior Seminar in Mathematics (4)	
E Course =				WI course	
BLIEF BOOK CEA 2 10	C 4		(0)	Select one from each of the following groups (12-14)	
Block F: Upper Division GE from 3 diff	ierent su	D-DIOCKS	(9)	Group I:	
Sub block B Course =				MATH 4010 - Ordinary Differential Equations (3) MATH 4030 - Partial Differential Equations (3)	
Sub block C Course =				Group II: MATH 4100 - Vector Analysis (3)	
Sub block D Course =	1			MATH 4670 - Multivariate Analysis (3)	
Sub block B course				Group III:	
GWAR Requirements (0-3)				MATH 4700 - Numerical Analysis I (3)	
UNIV 400 Writing Proficiency Exam (0)				MATH 4720 - Linear Programming (3)	
OR OR				Group IV:	
UNIV 401 Writing Proficiency (3)				PHYS 2200 General Physics II (5)	
order vor winding from the control of		l .	I .	BIOL 1200 Principles of Biology II (5)	
VARIOUS GE REQUIREMENTS				CHEM 1100 - General Chemistry I (5) CS 2012 – Introduction to Programming II (3)	
<ol> <li>Two civic learning courses (denoted by cl) wide.</li> <li>One race/ethnicity course (denoted by re) AN</li> </ol>				Directive Elective Courses Related Area Electives* (2	2-4)
d) course or another re course.		3 (	,		
3. One writing intensive course (denoted by <b>WI</b> ).			(If you took PHYS 2200, BIOL 1200, or CHEM 1100 in Group		
Above requirements must be fulfilled in GE blocks. Choose accordingly. An IHE			choose 2 units of approved courses. If you took CS 2012, choo	se 4 units.)	
course is required of all first-time freshmen. Please requirement rules and policies.	see e-cataio	og for comp	nete GE	Course 1 =	
*DIRECTIVE ELECTIVES IN RELATED ARI				Course2 =	
The approved list of all approved electives can be o	obtained at t	the math de	pt.	Upper Division Electives (9)	
website or the online course catalogue.				Course 1 =	
				Courser —	
Graduation Requirements  A minimum 40 units of upper division courses and 120 total units are required for				Course2 =	

Course3 =

graduation. For an extensive list of other graduation requirements, check

"academic requirement" in your GET account.