

#### 4-YEAR CURRICULAR MAP

### Bachelor of Science in Mathematics – Option B



FALL		YEAR 1		SPRING	
‡UK Core CC1	3	UK Core CC2			3
⌘Foreign language 101	4	⌘Foreign language 102			4
UK Core QFO (MA113: Calculus I <u>AND</u> MA 193: Supp. Workshop I)	5	MA 114: Calculus II <u>AND</u> MA 194: Supp. Math Workshop II			5
UK Core HUM	3	UK Core SSC			3
Total Credits: 15			Total Credits: 15		
FALL		YEAR 2		SPRING	
⌘Foreign language 201	3	MA 214: Calculus IV <u>OR</u> MA 261: Number Theory			3
UK Core NPM	3	MA 322: Matrix Algebra			3
MA 213: Calculus III	4	CS 215: Intro to Program Design, Abstraction, and Problem Solving			3
CS 115: Intro to Computer Programming	3	UK Core ACR			3
UK Core SIR	3	A&S NS			3
		A&S Lab			1
Total Credits: 16			Total Credits: 16		
FALL		YEAR 3		SPRING	
*300+ MA sequence 1	3	MA sequence 2			3
MA/STA 320: Intro to Probability	3	A&S SS			3
A&S HUM (300+)	3	MA/CS 321: Intro to Numerical Methods			3
Supporting Program 1 (3 Hours)	3	STA 321 (Substitute STA 525: Intro to Statistical Inference)			3
Math/Science Elective	3	MA 391: (GCCR)			3
		Supporting Program 2			3
Total Credits: 15			Total Credits: 18		
FALL		YEAR 4		SPRING	
*300+ MA course	3	Math/Science Elective			3
*300+ MA Supporting Program 3	3	MA sequence/core course			3
UK CORE CCC	3	UK Core GDY			3
Math/Science Elective	3	◊ Elective			3
◊ Elective	3				
Total Credits: 15			Total Credits: 12		

- ‡ Incoming students are strongly encouraged to take WRD 112 to fulfill the CC1 and CC2 requirements if they have any of the following: an ACT English score of 32 or Higher, an SAT Verbal score of 720 or Higher, or an AP English Composition score of 4 or 5. If the Student has been accepted into the University Honors Program, the Student is required to take WRD 112 to fulfill CC1 and CC2.
- \* To be discussed with your academic advisor.
- ⌘ Students who have taken at least 2 years of a language in high school can complete the A&S Foreign Language Requirement with 3 college semesters of a different language. Also note that if you take a foreign language placement exam, you may be exempt from 1 or more of the beginning semesters of that language. In this case, replace the by-passed language courses with electives. Any language sequence may be used to satisfy the foreign language requirements.
- ◊ 6 hours of 'free' electives - that do not count toward any other requirement - must be taken. Additional electives may be required to reach the required minimum of 120 hours. MA 193 and 194 will count towards this requirement.
- **Race and Ethnicity Requirement:** The College requires its students to complete an approved race and ethnicity (R&E) course that will address the changing meanings of race and ethnicity across time and space. Students may double-dip courses to satisfy the R&E requirement with any other requirement.

<b>UK Core Abbreviations</b>	CC2= Composition and Communication II
HUM =Intellectual Inquiry in the Humanities	QFO= Quantitative Foundations
NPM=Intellectual Inquiry in the Natural/Physical/Mathematical Science	SIR= Statistical Inferential Reasoning
SSC=Intellectual Inquiry in Social Sciences	CCC= Community, Culture and Citizenship in U.S.
ACR=Intellectual Inquiry in Arts & Creativity	GDY= Global Dynamics
CC1= Composition and Communication I	GCCR= Graduation Composition and Communication
<b>College of Arts &amp; Sciences Abbreviations</b>	
SS: Social Sciences NS: Natural Sciences	Lab: College Laboratory or Field Experience HUM: Humanities