

MATHEMATICS

BACHELOR OF ARTS (B.A.)

CORE Requirements	Credits	Major Requirements	Credits	Major Requirements	Credits	Free Electives ²	Credits
CORE 090 First Yr Exp.	1	MATH 127 ⁵	3	MATH Track**	3	Free Elective	3
CORE 100 Lib Arts Sem.	3	MATH 129 ⁵	4	MATH Track**	3	Free Elective	3
CORE 110 Effect Writ.	3	MATH 130	4	MATH Track**	3	Free Elective	3
CORE 115 or 116 Oral Comm.	3	MATH 231 ⁶	4	MATH Track**	3	Free Elective	3
CORE 131 or 133 Civilization	3	MATH 235 ⁶	3	MATH Track**	3	Free Elective	3
CORE 140 or 141-145 Forgn.	3	MATH 250	4	MATH Track**/Elect	(3)	Free Elective	3
CORE 150-159 Soc. Sci. ¹ (153 ³)	3	MATH 367	3			Free Elective	3
CORE 160-164 Literature	3	MATH 425	3			Free Elective	(3)
CORE 170-179 The Arts	3	MATH 490	1				
CORE 180-189 Amer. Studies ¹	3	CS 116/116L	3				
CORE 190-199 Global Studies ¹	3	CS 117/117L or CS 100	3				
CORE 250-259 Syst. Theology	3	Science Group*	3				
CORE 260-269 Mor. Theology	3	Science Group*	3				
CORE 280 Philos. I	3						
CORE 281-289 Philos. II	3						
Total Credits for CORE	43	Total Credits for Major	56 - 59	Total Credits for Free Electives	18 - 21		

Total Credits Required for Graduation = 120

*All students majoring in Mathematics must take one of the Science Groups below (lab portion not required):

Science Group 1*	OR	Science Group 2*	OR	Science Group 3*
CHEM 113		PHYS 111		PHYS 113 (<i>Calculus based</i>)
CHEM 114		PHYS 112		PHYS 114 (<i>Calculus based</i>)

**In addition to the above, each B. A. Mathematics Major must complete one of the following three tracks:

MATH Track 1 Graduate School	MATH Track 2 Actuary Science, Industry, & Government	MATH Track 3 Secondary Education
Students must take five (5) out of the seven (7) mathematics electives listed below. These courses must be numbered 361 or higher and are usually taken in the junior and senior years	Students must take the following six (6) mathematics courses, usually take in the junior and senior years	See program planner specifically designed for Math / Secondary Education
MATH 361 MATH 418 MATH 362 MATH 420 MATH 363 MATH 491 MATH 365	MATH 301 MATH 363 MATH 361 MATH 365 MATH 362 MATH 418, 420, or 491	

¹Students are required to take one of CORE 150, CORE 180, **OR** CORE 190 to fulfill the Interdisciplinary CORE requirement.

- If a student takes CORE 150, then he/she must choose one from 181 – 188 to fulfill the 18x requirement AND one from 191 – 198 to fulfill the 19x requirement.
- If a student takes CORE 180, then he/she must choose one from 151 – 158 to fulfill the 15x requirement AND one from 191 – 198 to fulfill the 19x requirement.
- If a student takes CORE 190, then he/she must choose one from 151 – 158 to fulfill the 15x requirement AND one from 181 – 188 to fulfill the 18x requirement.

²Students may select “free electives” for personal enrichment **OR** for Minor and/or Second Major Requirements.

³CORE 153 is highly recommended for students on MATH Track 2. (See ¹ above.)

⁴ECON 222 is recommended for students on MATH Track 2. MATH 362 substitutes as the ECON 221 prerequisite.

⁵Courses intended to be taken concurrently. Do not delay taking MATH 127.

⁶Courses intended to be taken concurrently. Do not delay taking MATH 235.

General Information:

A student must earn a minimum of 120 credit hours to be awarded the baccalaureate degree. The number of credit hours required for graduation may be higher in certain major programs **or** if the student elects to pursue a second major.

Beyond the requirements of the Core Curriculum and of a student’s chosen major program, the balances of the credit hours required for graduation are “free electives.”

MATHEMATICS

SUGGESTED SEQUENCE

- Use the information below as a guide when selecting courses.
- Refer to the reverse side when selecting major courses, major electives, core courses, and free electives when applicable.
- Consult your Academic Advisor prior to course registration.
- Refer to the King's College Catalog and/or website for course titles and descriptions.
- Choose one course from each CORE category as listed on the reverse side.
- CORE courses may be taken in any order approved by the academic advisor with the following conditions:
 - CORE 100 and CORE 110 should be taken in the first year.
 - CORE 115 (or 116) should be taken within the first two years.
 - For students selecting a Foreign Language (CORE 14x), every effort should be made to register for that language in the first semester at King's.

1 st Year – Fall		cr.	1 st Year - Spring		cr.
MATH 127 ⁵ Logic & Axiomatics		3	MATH 130 Analytic Geometry & Calculus II		4
MATH 129 ⁵ Analytic Geometry & Calculus I		4	CS 100 Introduction to Computing or CORE		3
CORE		3	CORE		3
CORE		3	CORE		3
CORE		3	CORE		3
CORE 090 First Year Experience		1			
		17			16
2 nd Year – Fall			2 nd Year – Spring		
MATH 231 ⁶ Analytic Geometry & Calculus III		4	MATH 250 Linear Algebra		4
MATH 235 ⁶ Discrete Mathematics		3	CORE		3
CORE		3	CORE		3
Science Group*		3	Science Group*		3
CS 116 Fund. of Soft. Dev. I with CS 116L Lab		3	CS 117 Fund. of Soft. Dev. II with CS 117L Lab OR CS 100 Intro to Computing OR CORE		3
		16			16
3 rd Year – Fall			3 rd Year – Spring		
MATH 367 Real Analysis I		3	MATH 490 Junior Seminar		1
MATH Track**		3	MATH Track**		3
CORE		3	MATH Track**		3
CORE		3	CORE		3
Free Elective ^{2, 4}		3	Free Elective ^{2, 4}		3
		15			13
4 th Year – Fall			4 th Year – Spring		
MATH 425 Abstract Algebra		3	MATH Track**		3
MATH Track**		3	MATH Track**/Elective		3
CORE		3	Free Elective ^{2, 4}		3
Free Elective ^{2, 4}		3	Free Elective ^{2, 4}		3
Free Elective ^{2, 4}		3			
		15			12
Total Credits Required for Graduation = 120					