

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			Free Elective	3
CORE 150-159 Soc. Sci. ³	3	MATH 367	3			Free Elective	3
CORE 160-169 Literature	3	MATH 425	3				
CORE 170-179 The Arts	3	MATH 490	1				
CORE 180-189 Amer. Studies ¹	3	CS 100 or 117	3				
CORE 190-199 Global Studies ¹	3	CS 116	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	Total Credits for Free Electives	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) math courses numbered 300 or higher. Typical options are:	Students must take five (5) math courses numbered 300 or higher. The following (5) courses are recommended	See program planner specifically designed for Math / Secondary Education
MATH 301 MATH 365 MATH 361 MATH 418 MATH 362 MATH 420 MATH 363 MATH 391/491	MATH 301 MATH 363 MATH 361 MATH 365 MATH 362	

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 for ECON 221 as course 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.

⁷MATH 238 is recommended for students on MATH Tracks 1 and 2.

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 complete the course during the first semester at King's College.

1st Year – Fall		cr.	1st 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
2nd Year – Fall			2nd Year – Spring		
MATH 231 ⁶ Analytic Geometry & Calculus III		4	MATH 250 Linear Algebra		4
MATH 235 ⁶ Discrete Mathematics		3	Free Elective ^{2,4,7} or CORE		3
CORE		3	CORE		3
Science Group*		3	Science Group*		3
CS 116 Fund. of Software Development I		3	CS 117 Fund. of Software Development II or CORE		3
		16			16
3rd Year – Fall			3rd 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 ^{2,4,7}		3	Free Elective ^{2,4,7}		3
		15			13
4th Year – Fall			4th Year – Spring		
MATH 425 Abstract Algebra		3	MATH Track**		3
MATH Track**		3	CORE or Free Elective ^{2,4,7}		3
CORE		3	Free Elective ^{2,4,7}		3
Free Elective ^{2,4,7}		3	Free Elective ^{2,4,7}		3
Free Elective ^{2,4,7}		3			
		15			12
Total Credits Required for Graduation = 120					