

MATHEMATICS / SECONDARY EDUCATION

BACHELOR OF ARTS (BA.MATH(SEC))

CORE Requirements	Credits	Major Requirements	Credits	Major Requirements	Credits	Secondary Education	Credits
CORE 090 First Yr Exp.	1	MATH 127 ⁵	3	MATH 236 ³	3	EDUC 202	3
CORE 100 Lib Arts Sem.	3	MATH 129 ⁵	4	MATH 361	3	EDUC 231	1
CORE 110 Effect Writ.	3	MATH 130	4	MATH 362	3	EDUC 232	1
CORE 115/116 Oral Com.	3	MATH 231 ⁶	4	MATH Elective**	3	EDUC 235 ²	3
CORE 131/133 Civilization	3	MATH 235 ⁶	3			EDUC 240 ²	3
CORE 140 or 141-145 Forgn.	3	MATH 250	4			EDUC 270	3
CORE 150-159 Soc. Sci. ¹	3	MATH 367	3			EDUC 299⁴	0
CORE 160-169 Literature	3	MATH 425	3			EDUC 305 ^{2,4}	3
CORE 170-179 The Arts	3	MATH 490	1			EDUC 320 ^{2,4}	3
CORE 180-189 Amer. Studies ¹	3	CS 111 ⁷	3			EDUC 350 ^{2,4}	3
CORE 190-199 Global Studies ¹	3	CS 112	3			EDUC 366 ^{2,4}	3
CORE 250-259 Syst. Theology	3	Science Group*	3			EDUC 440 ⁴	3
CORE 260-269 Mor. Theology	3	Science Group*	3			EDUC 467 ^{2,4}	10
CORE 280 Philos. I	3					EDUC 468 ^{2,4}	2
CORE 281-289 Philos. II	3						
Total Credits for CORE	43			Total Credits for Major	53	Total Credits for Secondary Education	41

Total Credits Required for Graduation = 137

* 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>)

** One additional Math Elective numbered 300 or Higher

MATH Electives		
MATH 301	MATH 363	MATH 418
MATH 361	MATH 365	MATH 420
MATH 362	MATH 391	MATH 491

¹ Students 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.

² Updated Child Abuse & Criminal Record & FBI Clearances **REQUIRED** for EDUC 235, EDUC 240, EDUC 320, EDUC 305, EDUC 350, EDUC 366, EDUC 467 and EDUC 468.

³ MATH 236 offered spring semester even years only. Students should take this course during their 2nd or 3rd year.

⁴ EDUC 299 Basic Skills is a pre-requisite for all 300 and 400 level education courses. In order to register for this course, you must take and pass all basic skills tests.

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

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

⁷ CS 100 or CS 120 may be substituted for CS 111.

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.

Because of the CORE, Major, and Secondary Education requirements, there are no “Free Electives” for students majoring in Mathematics/Secondary Education.

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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.

(Student Teaching in Spring Semester of Senior Year)			
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 111 ⁷ Programming for Sci & Egrn	3
CORE	3	CORE	3
CORE	3	CORE	3
CORE	3	CORE	3
CORE 090 First Year Experience	1		
	17		16
Summer Session***			
CORE	3		
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	MATH 236 ³ College Geometry or CORE	3
Science Group*	3	Science Group*	3
CS 112 Intro. to Programming	3	EDUC 202 Educ. Philos., Ethics, Issues & Trends	3
EDUC 235 ² Sec. Development, Cognition, & Learn	3	EDUC 240 ² Sec. Multicult., Linguistic & Inst. Meth.	3
EDUC 231 Technology Module I	1	EDUC 299⁴	0
	17		16
Admission to Candidacy (Complete and return "Application for Teacher Education Program Candidacy" to Education Administrative Assistant no sooner than the completion of 48 credits and no later than 65 credits)			
Summer Session***			
CORE	3		
3 rd Year - Fall		3 rd Year - Spring	
MATH 367 Real Analysis I	3	MATH 490 Junior Seminar	1
MATH 361 Probability & Statistics I	3	MATH 236 ³ College Geometry or CORE	3
EDUC 270 Introduction to Special Education	3	MATH 362 Probability & Statistics II	3
EDUC 320 ^{2,4} Secondary Mathematics Methods or		EDUC 366 ^{2,4} Methods. For Teaching Diverse	
EDUC 305 Assessment I	3	Secondary Students	3
CORE/ MATH Elective**	3	EDUC 350 ^{2,4} Secondary Classroom Management	3
EDUC 232 Technology Module II	1	CORE / MATH Elective**	3
	16		16
4 th Year - Fall		4 th Year - Spring	
MATH 425 Abstract Algebra	3	EDUC 467 ^{2,4} Observation & Student Teach. (Sec.)	10
CORE / MATH Elective**	3	EDUC 468 ^{2,4} Student Teaching Seminar	2
EDUC 305 ^{2,4} Assessment I or EDUC 320 Secondary		EDUC 440 ⁴ Inclusive Education	3
Mathematics Methods	3		
CORE	3		
CORE	3		
CORE	3	Take Praxis II	
	18		15

Total Credits Required for Graduation = 137

***** 6 credits during Summer Session are suggested in order to finish the degree in four years.**

NOTE: All Secondary Teacher Certification candidates must complete six credits of college level mathematics and six credits of college level English:

Math Courses	MATH 129	MATH 130
English Courses	CORE 110	CORE 160 - 169

The Pennsylvania Department of Education requires secondary teachers to have a degree in the content area for certification. Students seeking secondary certification must meet with his/her specific content area department for content area courses required for the degree. The Education Division is not responsible for content area or CORE courses for secondary certification candidates.