MATHEMATICS / SECONDARY EDUCATION CERTIFICATION

BACHELOR OF ARTS (B.A.)

CORE Requirements	Credits	Major Requirements	Credits	Major Requirements	Credits	Secondary Education
CORE 090 First Yr Exp. CORE 100 Lib Arts Sem. CORE 110 Effect Writ. CORE 115/116 Oral Com. CORE 131/133 Civilization CORE 130 or 141-145 Forgn. CORE 150-159 Soc. Sci. ¹ CORE 160-169 Literature CORE 170-179 The Arts CORE 180-189 Amer. Studies ¹ CORE 180-189 Amer. Studies ¹ CORE 250-259 Syst. Theology CORE 260-269 Mor. Theology CORE 280 Philos. I CORE 281-289 Philos. II	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	MATH 127 ⁵ MATH 129 ⁵ MATH 130 MATH 231 ⁶ MATH 235 ⁶ MATH 250 MATH 367 MATH 425 MATH 425 MATH 490 CS 100 ⁷ CS 116 Science Group* Science Group*	3 4 4 3 4 3 3 1 3 3 3 3	MATH 236 ³ MATH 361 MATH 362 MATH Elective**	3 3 3 3	EDUC 202 3 EDUC 231 1 EDUC 232 1 EDUC 2352 3 EDUC 2402 3 EDUC 270 3 EDUC 2994 0 EDUC 3052.4 3 EDUC 3052.4 3 EDUC 3052.4 3 EDUC 3062.4 3 EDUC 3662.4 3 EDUC 4662.4 3 EDUC 4672.4 10 EDUC 4682.4 2
Total Credits for CORE	43			Total Credits for Major	53	Total Credits forSecondary Education41

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*		Science Group 2*		Science Group 3*
CHEM 113	OR	PHYS 111	OR	PHYS 113 (Calculus based)
CHEM 114		PHYS 112		PHYS 114 (Calculus based)

****** 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		

¹Students are required to take one of CORE 150, CORE 180, <u>OR</u> 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 <u>**REQUIRED**</u> 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 117 Fundamentals of Software Development II may be substituted for CS 100 Introduction to Computing.

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 <u>or</u> 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.

MATHEMATICS / SECONDARY EDUCATION CERTIFICATION

SUGGESTED SEQUENCE

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- 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 1007 Introduction to Computing	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 2316 Analytic Geometry & Calculus III	4	MATH 250 Linear Algebra	4			
MATH 2356 Discrete Mathematics	3	MATH 2363 College Geometry or CORE	3			
Science Group*	3	Science Group*	3			
CS 116 Fund. of Software Development I	3	EDUC 202 Educ. Philos., Ethics, Issues & Trends	3			
EDUC 235 ² Sec. Development, Cognition, & Learn	3	EDUC 2402 Sec. Multicult., Linguistic & Inst. Meth.	3			
EDUC 231 Technology Module I	1	EDUC 299 ⁴	0			
	17		16			
Admission to Candidacy (Complete and return "Application	on for Teacher E	Education Program Candidacy" to Education Administrative Assistant no	sooner			
than the completion of 48 credits and no later than 65 credits	s)					
Summer Session***	2					
CORE	3					
3^{ru} Year – Fall	2	3 rd Year – Spring	4			
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 2/0 Introduction to Special Education	3 -	MATH 362 Probability & Statistics II	3			
EDUC 320 ^{2,4} Secondary Mathematics Methods or	2	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.)				
CORE / MATH Elective**			10			
	5	EDUC 468 ^{2, 4} Student Teaching Seminar	10 2			
EDUC 305 ^{2, 4} Assessment 1 or EDUC 320 Secondary	3	EDUC 468 ^{2, 4} Student Teaching Seminar	10 2			
EDUC 3054 * Assessment 1 or EDUC 320 Secondary Mathematics Methods	3	EDUC 468 ^{2, 4} Student Teaching Seminar EDUC 440 ⁴ Inclusive Education	10 2 3			
Mathematics Methods CORE	3 3 3	EDUC 468 ^{2, 4} Student Teaching Seminar EDUC 440 ⁴ Inclusive Education	10 2 3			
EDUC 3054 * Assessment 1 or EDUC 320 Secondary Mathematics Methods CORE CORE	3 3 3	EDUC 468 ^{2, 4} Student Teaching Seminar EDUC 440 ⁴ Inclusive Education	10 2 3			
EDUC 3054 * Assessment 1 or EDUC 320 Secondary Mathematics Methods CORE CORE CORE CORE	3 3 3 3 3	EDUC 468 ^{2, 4} Student Teaching Seminar EDUC 440 ⁴ Inclusive Education Take Praxis II	10 2 3			

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.