MATHEMATICS / SECONDARY EDUCATION

BACHELOR OF ARTS (B.A.)

CORE Requirements	Credits
CORE 090 First Yr Exp.	1
CORE 100 Lib Arts Sem.	3
CORE 110 Effect Writ.	3
CORE 115/116 Oral Com.	3
CORE 131/133 Civilization	3
CORE 14x Forgn. Lng/Cult	3
CORE 15x[1] Soc. Sci.	3
CORE 16x Literature	3
CORE 17x The Arts	3
CORE 18x[1] Amer. Studies	3
CORE 19x[1] Global Studies	3
CORE 25x Syst. Theology	3
CORE 26x Mor. Theology	3
CORE 280 Philos. I	3
CORE 281-289 Philos. II	3
Total Credits for CORE	**43**

Major Requirements	Credits	Major Requirements	Credits
MATH 127[5]	3	MATH 236[3]	3
MATH 129[5]	4	MATH 361	3
MATH 130	4	MATH 362	3
MATH 231[6]	4	MATH Elective**	3
MATH 235[6]	3		
MATH 250	4		
MATH 367	3		
MATH 425	3		
MATH 490	1		
CS 100[7]	3		
CS 116 & CS 116L	3		
Science Group*	3		
Science Group*	3		
		Total Credits for Major	**53**

Secondary Education	Credits
EDUC 202	3
EDUC 231	1
EDUC 232	1
EDUC 235[2]	3
EDUC 240[2]	3
EDUC 270	3
EDUC 299[4]	**0**
EDUC 305[2, 4]	3
EDUC 320[2, 4]	3
EDUC 350[2, 4]	3
EDUC 366[2, 4]	3
EDUC 440[4]	3
EDUC 467[2, 4]	7
EDUC 468[2, 4]	2
Total Credits for Secondary Education	**38**

Total Credits Required for Graduation = 134

* 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 363 or Higher

MATH Electives		
MATH 363	MATH 418	MATH 420
MATH 365		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 117/117L Fundamentals of Software Development II with Lab 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 **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." **Because of the CORE, Major, and Secondary Education requirements, there are no "Free Electives" for students majoring in Mathematics/Secondary Education.**

MATHEMATICS / SECONDARY EDUCATION

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)			
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[7] 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		
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	MATH 236[3] College Geometry or CORE	3
Science Group*	3	Science Group*	3
CS 116 Fund. of Soft. Dev. I **with** CS 116L Lab	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 299[4]**	**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		
3rd Year – Fall		**3rd Year – Spring**	
MATH 367 Real Analysis I	3	MATH 490 Junior Seminar	1
MATH 361 Probability	3	MATH 236[3] College Geometry or CORE	3
EDUC 270 Introduction to Special Education	3	MATH 362 Statistics	3
EDUC 320[2,4] Secondary Mathematics Methods	3	EDUC 350[2,4] Secondary Classroom Management	3
CORE/ MATH Elective**	3	EDUC 366[2,4] Meth. For Teaching Diverse Sec. Stud.	3
EDUC 232 Technology Module II	1	CORE / MATH Elective**	3
	16		**16**
4th Year - Fall		**4th Year – Spring**	
MATH 425 Abstract Algebra	3	EDUC 467[2,4] Observation & Student Teach. (Sec Ed)	7
CORE / MATH Elective**	3	EDUC 468[2,4] Student Teaching Seminar	2
EDUC 305[2,4] Assessment I	3	EDUC 440[4] Inclusive Education	3
CORE	3		
CORE	3		
CORE	3	**Take Praxis II**	
	18		**12**

Total Credits Required for Graduation = 134

*** Summer Session is suggested in order to finish the degree in four years (including student teaching).

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 161, 162, 163, or 164

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.