

GENERAL SCIENCE / SECONDARY EDUCATION

BACHELOR OF SCIENCE (B.S.)

CORE Requirements	Credits	Major Requirements	Credits	Minor Concentration	Credits	Secondary Education	Credits
CORE 090 First Yr Exp.	1	BIOL 113	3	Track Course*	3 - 4	EDUC 202	3
CORE 100 Lib Arts Sem.	3	BIOL 113L	1	Track Course*	3 - 4	EDUC 231	1
CORE 110 Effect Writ.	3	BIOL 210	3	Track Course*	3 - 4	EDUC 232	1
CORE 115/116 Oral Com.	3	BIOL 210L	1	Track Course*	3 - 4	EDUC 235 ²	3
CORE 131/133 Civilization	3	BIOL 213	3	Track Course*	3 - 4	EDUC 240 ²	3
CORE 14x Forgn. Lng/Cult	3	BIOL 213L	1	Track Course*	3 - 4	EDUC 270 ²	3
CORE 15x ¹ Soc. Sci.	3	CHEM 113	1	Track Course**	3 - 4	EDUC 299³	0
CORE 16x Literature	3	CHEM 113L	3	Track Course**	3 - 4	EDUC 302 ^{2,3}	3
CORE 17x The Arts	3	CHEM 114	1			EDUC 305 ^{2,3}	3
CORE 18x ¹ Amer. Studies	3	CHEM 114L	3			EDUC 350 ^{2,3}	3
CORE 19x ¹ Global Studies	3	PHYS 111	1			EDUC 366 ^{2,3}	3
CORE 25x Syst. Theology	3	PHYS 111L	3			EDUC 440 ³	3
CORE 26x Mor. Theology	3	PHYS 112	1			EDUC 467 ^{2,3}	7
CORE 280 Philos. I	3	PHYS 112L				EDUC 468 ^{2,3}	2
CORE 281-289 Philos. II	3	MATH 125 & 128					
		OR	8				
		MATH 129 & 130					
Total Credits for CORE	43	Total Minimum Credits for Major			60**	Total Credits for Secondary Education	38

Total Credits Required for Graduation = 141 – 152

***A student majoring in General Science must choose one of the following Tracks (minor concentrations) below:**

****Elective courses in Science and/or Math to accumulate a minimum of 60 credits in Science and Math.**

NOTE: Some courses required for certain minor programs will have prerequisites that must be fulfilled.

Biology	Chemistry	Mathematics	Neuroscience	Environmental Studies	Physics
BIOL 370	CHEM 241	MATH 127	CORE 154	ENST 201	PHYS 231
BIOL 490	CHEM 242	MATH 128	NEUR 211	ENST 202	PHYS Elective*
BIOL Elective*	CHEM 243	MATH 129	NEUR 212	One of the following:	PHYS Elective*
BIOL Elective*	CHEM 493	MATH 130	NEUR 310	ENST 490	PHYS Elective*
BIOL Elective*	CHEM 494	MATH 250	NEUR 480	ENST 499	One of the following math sequences:
BIOL Elective*	CHEM Elective*	MATH 490	Plus two (2) of the following:	Plus three (3) of the following:	MATH 129, 130, & 231
			NEUR 342	CORE 289	OR
			NEUR 346	ENST 289	MATH 125, 237, & 238
			NEUR 348	ENST 367	*Three PHYS elective courses numbered 233 or higher
			NEUR 349	ENST 491	
			NEUR 390	ENST 452	
				ENST 401	
*Minimum of Four (4) BIOL electives approved by the departmental advisor.	*One chemistry elective, excluding CHEM 351.				

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

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

²Updated Child Abuse & Criminal Record & FBI Clearances **REQUIRED** for EDUC 235, EDUC 240, EDUC 270, EDUC 302, EDUC 305, EDUC 350, EDUC 366, EDUC 467 and EDUC 468.

³ 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.

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 General Science/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.

1 st Year - Fall		cr.	1 st Year - Spring		cr.
BIOL 113 Evolution & Diversity*		3	BIOL 210 Organisms & Their Ecosystems*		3
BIOL 113L Evolution & Diversity Lab*		1	BIOL 210L Organisms & Their Ecosystems Lab*		1
CHEM 113 General Chemistry I		3	CHEM 114 General Chemistry II		3
CHEM 113L General Chemistry I Lab		1	CHEM 114L General Chemistry II Lab		1
MATH 128 Intro. to Statistics & Data Analysis		4	MATH 125 Calculus		4
CORE		3	CORE		3
CORE 090 First Year Experience		1			
		16			15
Summer Session***					
CORE		3			
2nd Year - Fall			2nd Year - Spring		
BIOL 213 Cell & Molecular Biology		3	Track Course*		3 - 4
BIOL 213L Cell & Molecular Biology Lab		1	Track Course*		3 - 4
Track Course*		3-4	CORE		3
CORE		3	EDUC 240 ² Sec. Multicult., Linguistic & Inst. Meth.		3
EDUC 202 Educ. Philos., Ethics, Issues & Trends		3	EDUC 270 Introduction to Special Education		3
EDUC 235 ² Sec. Development, Cognition, & Learn.		3	EDUC 299³		0
EDUC 231 Technology Module I		1			
		17-18			15-17
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)					
3rd Year - Fall			3rd Year - Spring		
PHYS 111 General Physics I*		3	PHYS 112 General Physics II*		3
PHYS 111L General Physics I Lab*		1	PHYS 112L General Physics II Lab*		1
Track Course*		3-4	Track Course*		3-4
CORE		3	CORE		3
CORE		3	CORE		3
EDUC 366 ^{2,3} Meth. For Teaching Diverse Sec. Stud.		3	EDUC 305 ^{2,3} Assessment I		3
EDUC 232 Technology Module II		1			
		17-18			15-17
4th Year - Fall			4th Year - Spring		
Track Course*		3 - 4	Track Course**		3 - 4
CORE		3	Track Course**		3 - 4
CORE		3	CORE		3
CORE		3	CORE		3
EDUC 302 ^{2,3} Secondary Science Methods		3	EDUC 350 ^{2,3} Secondary Classroom Management		3
		15-17			15-17
5th Year - Fall			Students who wish to finish in four (4) years (including Student Teaching) MUST take summer courses.		
EDUC 467 ^{2,3} Observation & Student Teach. (Sec Ed)	7				
EDUC 468 ^{2,3} Student Teaching Seminar	2				
EDUC 440 ³ Inclusive Education	3				
Take Praxis II					
		12			
Total Credits Required for Graduation = 141 - 152					

*Students considering the Physics track should take PHYS 111, 111L, 112, & 112L during their freshman year in exchange for the Biology courses.

***Summer Session is suggested.

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

Math Courses	MATH 125	MATH 128
English Courses	CORE 110	CORE 16__

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.