General Science / Secondary Education

Bachelor of Science (BS.GENSC(SEC))

College Sem.Quest for MeaningCSEM 1003† A student mar required to tak and/or MACommunicationOral CommunicationCOMM 1013105 and/or MA& CreativeLiteratureENGL 140-1493exam adminis prior to their fill for the ArtsExpressionThe ArtsARTS 100-1493semester at Kir College. ENGL 140-149CitizenshipInterculturalFREN/GERM/SPAN 100-level or Study Abroad††3CitizenshipGlobal ConnectionsECON 150-199; GEOG 150-199; HIST 150-199; SOC 150-1993Quantitative & SBMQuantitative ReasoningMATH 120° or higher level-ScientificSBMScientific EndeavorNSCI 100-SentificSBMScience in ContextNSCI 171-199-ReasoningIntroduction to Phil.PHIL 1013college catalogWisdom, Faith,Phil. InvestigationsPHIL 1013college catalogWisdom, Faith,Phil. InvestigationsPHIL 1013SBM staffedWisdom, Faith,Theology & WisdomTHEO 150-1593SBM staffedK the Good LifeTheology & the Good LifeTHEO 160-1693Introduction of Maji requirem	Core Requir	ements		Credits	Notes/Instructions
CommunicationWritingENGL 110†3105 and/or MA based on place warms adminish prior to their fit semester at Kir College. ENGL 140-149& CreativeLiteratureENGL 140-1493ExpressionThe ArtsARTS 100-1493CitizenshipHistoryHIST 100-1493CitizenshipInterculturalFREN/GERM/SPAN 100-level or Study Abroad††3Global ConnectionsECON 150-199; GEOG 150-199; HIST 150-199; SOC 150-1993Quantitative & ScientificSBM Scientific EndeavorMATH 120° or higher level-ScientificSBM Science in ContextNSCI 100-ReasoningIntroduction to Phil.PHIL 101-Wisdom, Faith, & the Good LifeIntroductionsPHIL 101Phil. InvestigationsPHIL 170-1993Theology & WisdomTHEO 150-1593Statisfied by takTHEO 150-1593Mister beildTHEO 150-1593Kister beildTHEO 160-1693	College Sem.	Quest for Meaning	CSEM 100	3	+A student may be required to take ENGL
CitizenshipHistory Intercultural Global ConnectionsHIST 100-149 FREN/GERM/SPAN 100-level or Study Abroad++ 	Communication & Creative Expression	Writing Oral Communicatio Literature The Arts	ENGL 110† n COMM 101 ENGL 140-149 ARTS 100-149	3 3 3 3	105 and/or MATH 100 based on placement exams administered prior to their first semester at King's College. ENGL 105 and
Quantitative & SBM Quantitative Reasoning MATH 120° or higher level - requirement ca Scientific SBM Scientific Endeavor NSCI 100 - satisfied by tak Scientific SBM Science in Context NSCI 171-199 - credit or partial Reasoning Human Beh. & Soc. Inst ECON 111, 112; GEOG 101, 102; PS 101, PSYC 101, SOC 101 3 credits or partial Wisdom, Faith, Introduction to Phil. PHIL 101 3 information) 3 Wisdom, Faith, Phil. Investigations PHIL 170-199 3 SBM = Satisfied Theology & Wisdom THEO 150-159 3 SBM = Satisfied Theology & the Good Life THEO 160-169 3 lister below.	Citizenship	History Intercultural Global Connections	HIST 100-149 FREN/GERM/SPAN 100-level or Study Abroad†† ECON 150-199; GEOG 150-199; HIST 150-199; PS 150-199; SOC 150	3 3 -199 3	MATH 100 are 3-credit courses and will count as free electives. †† The Intercultural Competence
Wisdom, Faith, & the Good Life Introduction to Phil. PHIL 101 3 college catalog information) Theology & Wisdom PHIL 170-199 3 SBM = Satisfied Major requirem listed below. Theology & Wisdom THEO 150-159 3 SBM = Satisfied Major requirem listed below.	Quantitative & Scientific Reasoning	SBM Quantitative Reason SBM Scientific Endeavor SBM Science in Context Human Beh. & Soc.	ning MATH 120 [†] or higher level NSCI 100 NSCI 171-199 Inst ECON 111, 112; GEOG 101, 102; PS 101, PSYC 101, SOC 101	- - 3	requirement can be satisfied by taking a 100- level language class for 3 credits or participating in an approved Study Abroad experience. (See
	Wisdom, Faith, & the Good Life	Introduction to Phil Phil. Investigations Theology & Wisdom Theology & the Goo	. PHIL 101 PHIL 170-199 n THEO 150-159 nd Life THEO 160-169	3 3 3 3	college catalog for more information) SBM = Satisfied Ry Major requirement listed below.

Total Core Credits

Major	Credits	Major	Credit	ts Seco	ndary Education	Credits
Taka two of	the	Track Cou		EDUC	202	2
following with labs:			IISE 5-4		202	5
		Track Cou	113E 3-4 1rse* 3-4		231	1
BIOL 113		Track Cou	urse* 3 - 4		232 235 ³	3
BIOL 1130	- ?R Q	Track Cou	113E 3-4 1rse* 3-4		235 240 ³	3
BIOL 210	o credits	Track Cou	urso* 3_/		240 270 ³	3
		Track Cou	urso** 2_4		2023,4	2
BIOL 213	1	Track Cou	urso** 3_/		305 ^{3, 4}	3
CHEM 113 ²	- 3	/Track Cod	(130^{**}) $(3-1)^{**}$		350 ^{3,4}	3
CHEM 113	1				366 ^{3, 4}	3
CHEM 114PR	3				440 ⁴	3
CHEM 114	1			EDUC	467 ^{3, 4}	10
PHYS 111 or	113 3			EDUC	468 ^{3, 4}	2
PHYS 111 0	r 1131 1					-
PHYS 112 ^{PR} (or 114 ^{PR} 3					
PHYS 1121 PR	or 1141 ^{PR} 1					
MATH 125 &	128					
OR	8			Other	Requirements	
MATH 129 &	130			HCE 1	01 Holy Cross Exp.	1
Total Min	imum Major Credits		60**	* Total Sec	Ed / Other Credits	45
		Minimum Credits Re	quired for Graduation	on = 144		
*A studen	t majoring in Genera	l Science must choose	e one of the followin	ng Tracks (minor conce	entrations) below:	
	**Elective courses in	Science and/or Math to a	ccumulate a minimum of	60 credits in Science and N	lath.	
	NOTE: Some course	es required for certain mino	r programs will have prer	equisites that must be fulfill	ed.	
Biology	Chemistry	Mathematics	Neuroscience	Environmental Science	Physics	
BIOL 370	CHEM 241	MATH 126	PSYC 101	ENST 200	PHYS 231	
BIOL 490	CHEM 242	MATH 129	NEUR 211	ENST 201	PHYS Elective	*
				ENST 202		
3 rd Foundational BIOL	CHEM 243	MATH 130	NELIR 212	One of the following:	PHVS Flective	*
(113, 210, 213 + Lab)		WATT 150	NEON 212	one of the johowing.		
BIOL Elective*	CHEM 493	MATH 237	NEUR 310	ENST 490	PHYS Elective*	
BIOL Elective*	CHEM 494	MATH Capstone MATH 127	NEUR 480	ENST 491	MATH 129	
BIOL Elective*	CHEM Elective*	Plus one (1) of the	Plus two (2) of the	ENST 499	MATH 130	
*Minimum of Four (4)	*One chemistry	following:	following:	Plus three (2)	Plus one (1) of the fo	ollowing:
BIOL electives	elective, excluding	MATH 231	NEUR 342		MATH 231	
approved by the	CHEM 351.	MATH 238	NEUR 346	ENST 300 or higher	MATH 237	
departmental advisor.			NEUR 348		*Three PHYS elective	e courses

See reverse side for a suggested sequence

Effective 07/01/2025

*Three PHYS elective courses

	NEUR 349		numbered 300 or higher with lab if offered
	NEUR 390	*Three ENST elective courses numbered 300 or higher with lab if offered.	

General Science / Secondary Education

Suggested Sequence

A suggested course sequence of degree requirements is listed below. Refer to the college catalog for course titles, descriptions, and prerequisites. Always consult your Academic Advisor when planning and scheduling your classes.

Tail	Credits	Spring	Credits
BIOL 113 ² or BIOL 213	3	BIOL 210 ^{PR} Organisms & Their Ecosystems	3
BIOL 113L or BIOL 213L	1	◆BIOL 210L ^{PR} Organisms & Their Ecosystems Lab	1
CHEM 113 ² General Chemistry I	3	CHEM 114 ^{PR} General Chemistry II	3
CHEM 113L General Chemistry I Lab	1	CHEM 114L ^{PR} General Chemistry II Lab	1
MATH 128 ² Statistics or 129 ² Calculus I	4	MATH 125 ² Calculus I or MATH 130 Calculus II	4
Core Course ¹	3	EDUC 202	3
– HCE 101 Holy Cross Experience	1		
	16		15
Fall	Credits	Spring	Credits
Track Course*	3 - 4	Track Course*	3 - 4
Track Course*	3 - 4	Track Course*	3 - 4
Core Course ¹	3	Core Course ¹	3
Core Course ¹	3	EDUC 240 ³ Sec. Multicult., Linguistic & Inst. Meth.	3
EDUC 235 ³ Sec. Development, Cognition, & Learn	3	Core Course ¹	3
-	15-17		15-17
Admission to Candidacy (Complete and return "App	lication for Teacher Ed	ucation Program Candidacy" to the Education Department no	
sooner than the completion of 48 credits and no late	er than 65 credits.)		
Fall	Credits	Spring	Credits
PHYS 111 or 113 General Physics I	3	PHYS 112 or 114 General Physics II	3
PHYS 111L or 113L General Physics I Lab	1	PHYS 112L or 114L General Physics II Lab	1
Track Course*	3 - 4	 Track Course*	3 - 4
Core Course ¹	3	EDUC 305	3
Core Course ¹	3	Core Course ¹	3
EDUC 270	3	Core Course ¹	3
-	16-17		16-17
Fall	Credits	Spring	Credits
Track Course*	3 - 4	Track Course*	3 - 4
Core Course ¹	3	Track Course*	3 - 4
Core Course ¹	3	Core Course ¹	3
Core Course ¹	3	EDUC 366 ^{3, 4} Methods For Teaching Diverse Learners	3
EDUC 302 ^{3,4} Secondary Science Methods	3	EDUC 350 ^{3,4} Secondary Classroom Management	3
EDUC 231 and 232	2		
	17-18		15-17
Fall	Credits		
EDUC 467 ^{3, 4} Observation & Student Teach. (Sec.)	10	Students who wish to finish in four (4) years	
EDUC 468 ^{3, 4} Student Teaching Seminar	2	(including Student Teaching)	1
EDUC 440 ⁴ Inclusive Education	-	MUST take summer courses	
Take Praxis II			

NOTES:

Minimum Credits Required for Graduation = 144

¹Choose one course from each of the Core Requirements listed on the reverse side.

² Course may satisfy both a Major and a Core requirement. BIOL 113 and CHEM 113 satisfy the Scientific Endeavor and Science in Context Core requirement. MATH 125 will satisfy the Quantitative Reasoning Core requirement.

³ Updated Child Abuse & Criminal Record & FBI Clearances **<u>REQUIRED</u>** for EDUC 235, EDUC 240, EDUC 270, EDUC 302, EDUC 305, EDUC 350, EDUC 366, EDUC 440, EDUC 467, and EDUC 468.

Students considering the Physics track should take PHYS 113, 113L, 114, & 114L during their freshman year in exchange for the Biology courses.

The standard semester course load is five courses consisting of 15 – 17 credits. A student may take 18 credits if the science lab puts them over 17 credits (for more information about credit loads, please see the college catalog). Students are encouraged to take some Core courses during the summer months to help "lighten" their course load during a semester. All Secondary Teacher Certification candidates must complete six credits of college level mathematics and six credits of college level English:

MATH: 125, 128 ENGL: 110. 140-149

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.