

Biology – Concentration in Pre-Genetic Counseling

Bachelor of Science (BS.BIOL)

Core Requirements				Credits	Notes/Instructions
College Sem.		Quest for Meaning	CSEM 100	3	†A student may be required to take ENGL 105 and/or MATH 100 based on placement exams administered prior to their first semester at King's College. ENGL 105 and MATH 100 are 3-credit courses and will count as free electives. †† The Intercultural Competence requirement can be satisfied by taking a 100-level language class for 3 credits or participating in an approved Study Abroad experience. (See college catalog for more information) SBM = Satisfied By Major requirement(s) and credit(s) listed below.
Communication & Creative Expression		Writing	ENGL 110†	3	
		Oral Communication	COMM 101	3	
		Literature	ENGL 140-149	3	
		The Arts	ARTS 100-149	3	
Citizenship		History	HIST 100-149	3	
		Intercultural	FREN/GERM/SPAN 100-level or Study Abroad††	3	
		Global Connections	ECON 150-199; GEOG 150-199; HIST 150-199; PS 150-199; SOC 150-199	3	
Quantitative & Scientific Reasoning	SBM	Quantitative Reasoning	MATH 120+ or higher level	-	
	SBM	Scientific Endeavor	NSCI 100	-	
	SBM	Science in Context	NSCI 171-199	-	
	SBM	Human Beh. & Soc. Inst	ECON 111, 112; GEOG 101, 102; PS 101, PSYC 101, SOC 101	-	
Wisdom, Faith, & the Good Life		Introduction to Phil.	PHIL 101	3	
	SBM	Phil. Investigations	PHIL 170-199 (PHIL 174 / THEO 288)	-	
		Theology & Wisdom	THEO 150-159	3	
		Theology & the Good Life	THEO 160-169	3	
Total Core Credits				33	

Major Requirements	Credits	Major Requirements	Credits	Electives ³ / Other Requirements	Credits
BIOL 113 ²	3	CHEM 113 ²	3	HCE 101 Holy Cross Exp.	1
BIOL 113L	1	CHEM 113L	1	Free Elective	3
BIOL 210 ^{PR}	3	CHEM 114 ^{PR}	3	Free Elective	1-3
BIOL 210L	1	CHEM 114L	1		
BIOL 213 ^{PR}	3	CHEM 241 ^{PR}	3		
BIOL 213L	1	CHEM 241L	1		
BIOL 270 ^{4,PR} (spring)	1	CHEM 242 ^{PR}	3		
BIOL 370 ^{5,PR}	2	CHEM 242L	1		
BIOL 470 ^{6,PR} (spring)	2	MATH 125	4		
BIOL 490 / RIC ⁷	4	MATH 128	4		
BIOL 353*	3	PHYS 111	3		
BIOL Elective w/Lab*	3-4	PHYS 111L	1		
BIOL Elective w/Lab*	3-4	PHYS 112 ^{PR}	3		
BIOL Elective w/Lab*	3-4	PHYS 112L	1		
PSYC 101*	3				
PSYC 355*	3				
PSYC 356*	3				
PSYC 362*	3				
PHIL 174* / THEO 288*	3				
Total Major Credits	48-51	Total Major Credits	32	Total Elective / Other Credits	5-7

Total Credits Required for Graduation = 120

*In addition to the Major Sequence requirements, a **Biology Major with a Concentration in Pre-Genetic Counseling** must complete the following courses. ALWAYS consult with your Biology advisor when planning and selecting courses.

Required courses for a Biology Major with a Concentration in Pre-Genetic Counseling (27-29 credits)	
BIOL 353 Biochemistry (3)	PSYC 101 Introduction to Psychology (3)
BIOL Electives (choose three of the four courses below and take the accompanying lab if offered)	PHIL 174/THEO 288 Bioethics (3)
BIOL 323 Genetics with Lab (4) (offered possibly every spring)	PSYC 355 Developmental Psychology: Childhood and Adolescence (3)
BIOL 330 Introductory Bioinformatics (3) (offered every other fall)	PSYC 356 Developmental Psychology: Adulthood and Aging (3)
BIOL 341 Medical Genetics (3) (offered every spring)	PSUC 362 Introduction to Counseling and Therapy (3)
BIOL 450 Molecular Genetics with Lab (4) (offered every other fall)	NOTE: Two additional Psychology courses will confer a Psychology Minor

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."

See reverse side for a suggested sequence

Effective 07/01/2026

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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.

Fall		Credits	Spring		Credits
BIOL 113 ² Evolution & Diversity		3	BIOL 210 ^{PR} Organisms & Their Ecosystems		3
BIOL 113L Evolution & Diversity Lab		1	BIOL 210L 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 General Chemistry II Lab		1
PSYC 101 Intro to Psychology*		3	MATH 125 ² Calculus		4
Core Course ¹		3	Core Course ¹		3
HCE 101 Holy Cross Experience		1			
		15**			15**
Summer		Credits			
Fall		Credits	Spring		Credits
BIOL 213 ^{PR} Cell & Molecular Biology		3	BIOL Elective w/Lab*		3-4
BIOL 213L Cell & Molecular Biology Lab		1	BIOL 270 ^{4,PR} Sophomore Seminar		1
CHEM 241 ^{PR} Organic Chemistry I		3	CHEM 242 ^{PR} Organic Chemistry II		3
CHEM 241L Organic Chemistry I Lab		1	CHEM 242L Organic Chemistry II Lab		1
MATH 128 Intro. to Statistics & Data Analysis		4	PHIL 174 Bioethics* (THEO 288)		3
Core Course ¹		3	Core Course ¹		3
		15**			15**
Summer		Credits			
Fall		Credits	Spring		Credits
PHYS 111 Physics for the Life Sciences I		3	PHYS 112 ^{PR} Physics for the Life Sciences II		3
PHYS 111L Physics for the Life Sciences I Lab		1	PHYS 112L Physics for the Life Sciences II Lab		1
BIOL 370 ^{5,PR} Junior Seminar		2	BIOL 353 Biochemistry*		3
PSYC 355 Develop. Psych: Childhood/Adolescence		3	BIOL 353L Biochemistry Lab*		1
Core Course ¹		3	PSYC 356 Develop. Psych: Adulthood/Aging		3
Core Course ¹		3	Core Course ¹		3
			Free Elective ³		3
		15**			17**
Summer		Credits			
Fall		Credits	Spring		Credits
BIOL 490 or RIC ⁷ Elective with lab*		4	BIOL 470 ^{6,PR} Senior Seminar		2
BIOL Elective w/Lab*		3-4	BIOL Elective w/Lab*		3-4
Core Course ¹		3	PSYC 362 Intro to Counseling and Therapy		3
Core Course ¹		3	Core Course ¹		3
Free Elective ^{3,**}		1-3	Core Course ¹		3
		13-18**			14-15**
Total Credits Required for Graduation = 120					

NOTES:

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

²Course 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.

³Students may select "free electives" for personal enrichment **OR** for Minor and/or Second Major Requirements.

⁴Sophomore Seminar – Spring Semester of Sophomore Year

⁵Junior Seminar – Fall or Spring Semester of Junior Year

⁶Senior Seminar – Spring Semester of Senior Year

⁷Research requirement: Biology 490 or Biology Elective that is designated as a Research Intensive Course (RIC)

^{PR} Course has a prerequisite – check college catalog.

**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*).