# **Biology – Accelerated Pre-Medical Track**

For Pre-Medical Students

Bachelor of Science (BS.BIOL)

<b>Core Requir</b>	ements		Credits	Notes/Instructions
College Sem.	Quest for Meaning	CSEM 100	3	+A student may be required to take ENGL
Communication & Creative Expression	Writing Oral Communication Literature The Arts	ENGL 110 <sup>†</sup> COMM 101 ENGL 140-149 ARTS 100-149	3 3 3 3	105 and/or MATH 10 based on placement exams administered prior to their first semester at King's College. ENGL 105 an
Citizenship	History Intercultural Global Connections	HIST 100-149 FREN/GERM/SPAN 100-level or Study Abroad <sup>++</sup> ECON 150-199; GEOG 150-199; HIST 150-199; PS 150-199; SOC 150-199	3 3 3	<ul> <li>MATH 100 are 3-credit courses and will count free electives.</li> <li>†† The Intercultural Competence</li> </ul>
Quantitative & Scientific Reasoning	SBM         Quantitative Reasoning           SBM         Scientific Endeavor           SBM         Science in Context           Human Beh. & Soc. Inst	MATH 120 <sup>†</sup> or higher level NSCI 100 NSCI 171-199 ECON 111, 112; GEOG 101, 102; PS 101, PSYC 101, SOC 101	- - 3	requirement can be satisfied by taking a 10 level language class for credits or participating an approved Study Abroad experience. (So
Wisdom, Faith, & the Good Life	Introduction to Phil. Phil. Investigations Theology & Wisdom Theology & the Good Life	PHIL 101 PHIL 170-199; MSB 287 THEO 150-159 THEO 160-169	3 3 3 3	<ul> <li>college catalog for mo information)</li> <li>SBM = Satisfied By Major requirement(s) and credit(s) listed below.</li> </ul>
		Total Core Credits	39	

otal Core Credits 3

Major Requirements	Credits	Major Requirements	Credits	Other Requirements	Credits
BIOL 113 <sup>2</sup>	3	CHEM 113 <sup>2</sup>	3	HCE 101 Holy Cross Exp.	1
BIOL 113L	1	CHEM 113L	1		
BIOL 210PR	3	CHEM 114 <sup>PR</sup>	3		
BIOL 210L	1	CHEM 114L	1		
BIOL 213PR	3	CHEM 241 <sup>PR</sup>	3		
BIOL 213L	1	CHEM 241L	1		
BIOL 270 <sup>4,PR</sup> (spring)	1	CHEM 242 <sup>PR</sup>	3		
BIOL 370 <sup>5,PR</sup>	2	CHEM 242L	1		
BIOL 470 <sup>6,PR</sup> (spring)	2	MATH 125	4		
BIOL 353PR	3	MATH 128	4		
BIOL RIC <sup>7</sup>	4	PHYS 111	3		
BIOL Elective*	4	PHYS 111L	1		
		PHYS 112 <sup>PR</sup>	3		
	_	PHYS 112L	1		
Total Major Credits	28	Total Major Credits	32	Total Elective / Other Credits	1
			Total C	redits Completed at King's College	100

### **Medical School<sup>3</sup>**

Students following the Accelerated Pre-Medical Track will complete the remaining King's College graduation requirements for Biology during the first year at their Medical School. This includes the 7 remaining BIOL credits and the 13 free elective credits

Required credits remaining credits to graduate from King's College

### **Total Credits Required for Graduation = 120**

\*In addition to the Major Sequence requirements, a student following the Biology – Accelerated Pre-Medical Track must also complete two (2) upper-level courses each with a lab. In addition, one of these courses must be research intensive (consult with Biology advisor).

Biology Electives <sup>pa</sup>						
	BIOL 310 Computer Modeling in Biology & Env. Sci	BIOL 349 Animal Behavior	BIOL 416 Parasitology			
	BIOL 314 Microbiology	BIOL 350 Developmental Biology	BIOL 420 Botanical Pharmacology			
	BIOL 323 Genetics	BIOL 355 Comparative Vertebrate Anatomy	BIOL 430 Ecology			
	BIOL 326 Immunology	BIOL 380 Neuroendocrinology	BIOL 447 Physiology			
	BIOL 330 Introductory Bioinformatics	BIOL 401 Special Topics in Env. Science	BIOL 450 Molecular Genetics: DNA Science			
	BIOL 336 Cell Biology		BIOL 456 Molecular Mechanisms of Brain Disorders			

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# **Biology – Accelerated Pre-Medical Track**

## 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 <sup>2</sup> Evolution & Diversity	3	BIOL 210 <sup>PR</sup> Organisms & Their Ecosystems	3
BIOL 113L Evolution & Diversity Lab	1	BIOL 210L Organisms & Their Ecosystems Lab	1
CHEM 113 <sup>2</sup> General Chemistry I	3	CHEM 114 <sup>PR</sup> General Chemistry II	3
CHEM 113L General Chemistry I Lab	1	CHEM 114L General Chemistry II Lab	1
Core Course <sup>1</sup>	3	MATH 125 <sup>2</sup> Calculus	4
Core Course <sup>1</sup>	3	Core Course <sup>1</sup>	3
HCE 101 Holy Cross Experience	1	Core Course <sup>1</sup>	3
	15**		18**
Summer	Credits		
-			
Fall	Credits	Spring	Credits
BIOL 213 <sup>PR</sup> Cell & Molecular Biology	3	BIOL 353 Biochemistry	3
BIOL 213L Cell & Molecular Biology Lab	1	BIOL 270 <sup>4,PR</sup> Sophomore Seminar	1
CHEM 241 <sup>PR</sup> Organic Chemistry I	3	CHEM 242 <sup>PR</sup> 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	PHYS 112 <sup>PR</sup> Physics for the Life Sciences II	3
PHYS 111 Physics for the Life Sciences I	3	PHYS 112L Physics for the Life Sciences II Lab	1
PHYS 111L Physics for the Life Sciences I Lab	1	Core Course <sup>1</sup>	3
		Core Course <sup>1</sup>	3
	16**		18**
Summer	Credits		
MCAT test preparation – Take Prep Course Plan to take MCAT in August			
Fall	Credits	Spring	Credit
BIOL RIC <sup>7</sup> with lab*	4	BIOL 470 <sup>6, PR</sup> Senior Seminar	2
BIOL 370 <sup>5,PR</sup> Seminar (Soph./Junior Diag. Project)	2	BIOL Elective*	3
Core Course <sup>1</sup>	3	BIOL Elective Lab*	1
Core Course <sup>1</sup>	3	Core Course <sup>1</sup>	3
Core Course <sup>1</sup>	3	Core Course <sup>1</sup>	3
Core Course <sup>1</sup>	3	Core Course <sup>1</sup>	3
	18		15

## Medical School<sup>3</sup> - First Year

4<sup>th</sup> Year – (1<sup>ST</sup> Year at Medical School)

First Year Medical School Curriculum will satisfy the following:

- The remaining 7 credits of BIOL Electives required for the Biology major.
- The remaining 13 Free Elective credits required for the King's College Biology Degree.

Required credits remaining credits to graduate from King's College 20

### **Total Credits Required for Graduation = 120**

#### NOTES:

<sup>1</sup>Choose one course from each of the Core Requirements listed on the reverse side.

<sup>2</sup> 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.

<sup>3</sup> Students will use courses taken at their Medical School to count as the 7 BIOL Elective credits and the 14 Free Elective credits.

<sup>4</sup>Sophomore Seminar – Spring Semester of Sophomore Year

<sup>5</sup>Junior Seminar – Fall or Spring Semester of Junior Year

<sup>6</sup>Senior Seminar – Spring Semester of Junior Year

<sup>7</sup>Research Intensive Course (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).

We highly recommend that you consider taking classes over the summer to alleviate the intense course-load during the Fall and Spring semesters. Upon successful completion of the first-year professional school curriculum, the student will have satisfied all King's College requirements for graduation.