BIOLOGY

COURSE REQUIREMENTS — FALL 2013 / SPRING 2014

- **Required courses for a major in Biology.**

CORE Requirements	Credits
CORE 090	1
CORE 100	3
CORE 110	3
CORE 115 or 116	3
CORE 131 or 133	3
CORE 140 or 141 – 146	3
CORE 150[1] – 158	3
CORE 161 – 164	3
CORE 171 – 179	3
CORE 180[1] – 188	3
CORE 190[1] – 198	3
CORE 250 – 259	3
CORE 260 – 269	3
CORE 280	3
CORE 281 – 289	3
Total Credits for CORE	43

Major Requirements	Credits	Major Requirements	Credits
BIOL 113	3	CHEM 113	3
BIOL 113L	1	CHEM 113L	1
BIOL 210	3	CHEM 114	3
BIOL 210L	1	CHEM 114L	1
BIOL 213	3	CHEM 241	3
BIOL 213L	1	CHEM 241L	1
BIOL 370[3]	2	CHEM 242	3
BIOL 490[4]	4	CHEM 242L	1
BIOL Elective*	4	MATH 125	4
BIOL Elective*	4	MATH 128	4
BIOL Elective*	3	PHYS 111	3
BIOL Elective*	3	PHYS 111L	1
		PHYS 112	3
		PHYS 112L	1
		Total Credits for Major	64

Free Electives[2]	Credits
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	1-3
Total Credits for Free Electives	13-15

Minimum Credits Required for Graduation = 120

*In addition to the Major Sequence requirements, a Biology Major must also complete a minimum of <u>four</u> (4) upper-level courses (minimum of two with lab). Biology majors have the option to choose one of the following emphases. A student who selects an emphasis must choose four courses (minimum of two with a lab) from within one of the following lists, including the required courses (**) for the emphasis.

Biology Electives					
Emphasis I: Pre-Health		**Emphasis II: Molecular Biology**		**Emphasis III: Ecology**	
**BIOL 355	BIOL 336	**BIOL 323	BIOL 330	**BIOL 430	BIOL 401
**BIOL 447	BIOL 350	**BIOL 450	BIOL 336	BIOL 310	BIOL 416
BIOL 314	BIOL 380	BIOL 314	BIOL 453	BIOL 314	BIOL 420
BIOL 323	BIOL 416	BIOL 324	BIOL 456	BIOL 349	ENST 410
BIOL 324	BIOL 456	BIOL 326			
BIOL 326					

[1]Students are required to take CORE 150, CORE 180 **<u>OR</u>** 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.

[2]Students may select "free electives" for personal enrichment **<u>OR</u>** for Minor and/or Second Major Requirements.
[3]Sophomore/Junior Diagnostic Project (Fall or Spring Semester of Junior Year)
[4]Senior Integrated Assessment (Fall or Spring Semester of Senior Year)

<u>General Information:</u>
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 **<u>or</u>** 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

BIOLOGY

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.
        - CORE 098, CORE 099, and/or CORE 110L, if required, will fulfill elective credits.
        - 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.

	1st Year - Fall	cr.		**1st 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**
	2nd Year - Fall				
_____	BIOL 213 Cell & Molecular Biology	3	_____	BIOL Elective*	3
_____	BIOL 213L Cell & Molecular Biology Lab	1	_____	BIOL Elective Lab*	1
_____	CHEM 241 Organic Chemistry I	3	_____	CHEM 242 Organic Chemistry II	3
_____	CHEM 241L Organic Chemistry I Lab	1	_____	CHEM 242L Organic Chemistry II Lab	1
_____	CORE	3	_____	CORE	3
_____	CORE	3	_____	CORE	3
		14†			**14†**
	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
_____	BIOL Elective*	3	_____	BIOL Elective*	3
_____	BIOL 370[3] Seminar (Soph./Junior Diag. Project)	2	_____	BIOL Elective Lab*	1
_____	CORE	3	_____	CORE	3
_____	CORE	3	_____	Free Elective[2]	3
_____				Free Elective[2]†	1-3†
		15			**15-17**
	4th Year - Fall			**4th Year - Spring**	
_____	BIOL Elective*	3	_____	CORE	3
_____	BIOL 490[5] Biological Research (Senior Integ. Assessment)	4	_____	CORE	3
_____	CORE	3	_____	CORE	3
_____	CORE	3	_____	Free Elective[2]	3
_____	Free Elective[2]	3	_____	Free Elective[2]	3
		16			**15**

Minimum Credits Required for Graduation = 120

†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)*