BIOLOGY

BACHELOR OF SCIENCE (B.S.)

	CORE Requirements	Credits
____	CORE 090 First Yr Exp.	1
____	CORE 100 Lib Arts Sem.	3
____	CORE 110 Effect Writ.	3
____	CORE 115 or 116 Oral Comm.	3
____	CORE 131 or 133 Civilization	3
____	CORE 140 or 141-145 Forgn.	3
____	CORE 150-159 Soc. Sci. [1]	3
____	CORE 160-164 Literature	3
____	CORE 170-179 The Arts	3
____	CORE 180-189 Amer. Studies[1]	3
____	CORE 190-199 Global Studies[1]	3
____	CORE 250-259 Syst. Theology	3
____	CORE 260-269 Mor. Theology	3
____	CORE 280 Philos. I	3
____	CORE 281-289 Philos. II	3
	Total Credits for CORE	43

	Major Requirements	Credits
____	BIOL 113	3
____	BIOL 113L	1
____	BIOL 210	3
____	BIOL 210L	1
____	BIOL 213	3
____	BIOL 213L	1
____	BIOL 270[3] *(spring)*	1
____	BIOL 370[4]	2
____	BIOL 470[5] *(spring)*	1
____	BIOL Elective*	4
____	BIOL Elective*	4
____	BIOL Elective*	4
____	BIOL Elective*	3
____	BIOL 490 / RIC[6]	3

	Major Requirements	Credits
____	CHEM 113	3
____	CHEM 113L	1
____	CHEM 114	3
____	CHEM 114L	1
____	CHEM 241	3
____	CHEM 241L	1
____	CHEM 242	3
____	CHEM 242L	1
____	MATH 125	4
____	MATH 128	4
____	PHYS 111	3
____	PHYS 111L	1
____	PHYS 112	3
____	PHYS 112L	1
	Total Credits for Major	66

	Free Electives[2]	Credits
____	Free Elective	3
____	Free Elective	3
____	Free Elective	3
____	Free Elective	2-3
	Total Credits for Free Electives	11-12

Minimum Credits Required for Graduation = 120

*In addition to the Major Sequence requirements, a Biology Major must also complete a minimum of five (5) upper-level courses (minimum of three with lab). In addition, one of these courses must be research intensive (consult with Biology advisor). Biology majors also have the option to choose a major emphasis in Pre-Health, Molecular Biology, or Ecology (see College Catalog).

Biology Electives		
BIOL 310 Computer Modeling in Biology & Env. Sci	BIOL 336 Cell Biology	BIOL 416 — Parasitology
BIOL 314 Microbiology	BIOL 349 Animal Behavior	BIOL 420 – Botany
BIOL 323 Genetics	BIOL 350 Vertebrate Embryology	BIOL 430 — Ecology
BIOL 324 Biochemistry	BIOL 355 Comparative Vertebrate Anatomy	BIOL 447 — Physiology
BIOL 326 Immunology	BIOL 380 Neuroendocrinology	BIOL 450 — Molecular Genetics: DNA Science
BIOL 330 Introductory Bioinformatics	BIOL 401 Special Topics in Env. Science	BIOL 456 – Molecular Neuroscience

[1]Students 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.

[2]Students may select "free electives" for personal enrichment **OR** for Minor and/or Second Major Requirements.
[3]Sophomore Seminar – Spring Semester of Sophomore Year
[4]Junior Seminar – Fall or Spring Semester of Junior Year
[5]Senior Seminar – Spring Semester of Senior Year
[6]Research requirement: Biology 490 or Biology Elective that is designated as a Research intensive course (RIC)

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

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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.

	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
	CORE	3		MATH 125 Calculus	4
	CORE	3		CORE	3
	CORE 090 First Year Experience	1			
		15†			**15**†
	2nd Year - Fall				
	BIOL 213 Cell & Molecular Biology	3		BIOL Elective*	3
	BIOL 213L Cell & Molecular Biology Lab	1		BIOL 270[3] Sophomore Seminar	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
	MATH 128 Intro. to Statistics & Data Analysis	4		CORE	3
	CORE	3		CORE	3
		15			**14**†
	3rd Year – Fall			**3rd Year – Spring**	
	PHYS 111 Physics for the Life Sciences I	3		PHYS 112 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 Elective*	3		BIOL Elective*	3
	BIOL 370[4] Junior Seminar	2		BIOL Elective Lab*	1
	CORE	3		CORE	3
	CORE	3		Free Elective[2]	3
				Free Elective[2]†	2-3†
		15			**16-17**
	4th Year - Fall			**4th Year - Spring**	
	BIOL 490 or RIC[6] Elective with lab*	4		BIOL 470[5] Senior Seminar	1
	CORE	3		BIOL Elective*	3
	CORE	3		BIOL Elective Lab*	1
	CORE	3		CORE	3
	Free Elective[2]	**3**		CORE	3
				Free Elective[2]	3
		16			**14**
	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).*