CHEMISTRY

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	Major Requirements	Credits
CHEM 113	3	CHEM 114	3
CHEM 113L	1	CHEM 114L	1
CHEM 241	3	CHEM 242	3
CHEM 241L	1	CHEM 242L	1
CHEM 243	3	CHEM 244	3
CHEM 243L	2	CHEM 244L	2
CHEM 357	3	CHEM 358	3
CHEM 357L	2	CHEM 358L*	2
CHEM 351	1	CHEM 471	3
CHEM 493	1	CHEM 494	1
MATH 129	4	MATH 130	4
MATH 237**	3	MATH 238**	3
PHYS 113	3	PHYS 114	3
PHYS 113L	1	PHYS 114L	1
		Total Credits for Major	64

Free Electives[2]	Credits
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Total Credits for Free Electives	15

Total Credits Required for Graduation = 122

Students who wish to be eligible for certification by the American Chemical Society must include:

The two (2) courses below:		One of the following	
CHEM 353***	**AND**	CHEM 359	CHEM 475
CHEM 471L		CHEM 477	CHEM 496
		CHEM 373	CHEM 476
		CHEM 479	CHEM 497

*CHEM 358L may be replaced by a semester of research (CHEM 396, CHEM 397, CHEM 496, CHEM 497).
**The mathematics requirements may alternatively be met by completion of a minor in mathematics that includes MATH 129 and 130.
***BIOL 353 may substitute for CHEM 353 and CHEM 396/7, 496/7.

[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.

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

CHEMISTRY

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.
	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 129 Analytic Geometry & Calculus I	4		MATH 130 Analytic Geometry & Calculus II	4
	PHYS 113 Physics for Scientists & Engineers I	3		PHYS 114 Physics for Scientists & Engineers II	3
	PHYS 113L Physics for Sci. & Eng. I Lab	1		PHYS 114L Physics for Sci. & Eng. II Lab	1
	CORE	3		CORE	3
	CORE 090	1			
		16			**15**
	2nd Year - Fall			**2nd Year – Spring**	
	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
	CHEM 243 Analytical Chemistry	3		CHEM 244 Instrumental Analysis	3
	CHEM 243L Analytical Chemistry Lab	2		CHEM 244L Instrumental Analysis Lab	2
	MATH 237** Applied Linear Algebra	3		MATH 238** Differential Equations	3
	CORE	3		CORE	3
		15			**15**
	3rd Year – Fall			**3rd Year – Spring**	
	CHEM 357 Physical Chemistry I	3		CHEM 358 Physical Chemistry II	3
	CHEM 357L Physical Chemistry I Lab	2		CHEM 358L Physical Chemistry II Lab	2
	CHEM 351 Chemical Information Science	1		CORE	3
	CORE	3		CORE	3
	CORE	3		Free Elective[2]	3
	Free Elective[2]	3			
		15			**14**
	4th Year - Fall			**4th Year - Spring**	
	CHEM 493 Senior Colloquium	1		CHEM 494 Senior Colloquium	1
	CHEM 471 Advanced Inorganic Chemistry	3		CORE	3
	CORE	3		CORE	3
	CORE	3		CORE	3
	CORE	3		Free Elective[2]	3
	Free Elective[2]	3		Free Elective[2]	3
		16			**16**

Total Credits Required for Graduation = 122