

CHEMISTRY

As any good science student knows, the basic definition of chemistry is the study of matter and energy and the interactions that occur between them. However, have you ever stopped to think about how the study of matter “matters” in life? So many of the things that we depend upon to function every single day are made possible through the science of chemistry. For instance, the shampoo you used this morning to wash your hair was made possible through chemistry. Or how about the mobile phone that connects you to the world? Guess what? Your wireless network digital endeavors were made possible through chemistry. The list of how chemistry impacts our everyday life is endless, and at King’s you will learn why it all “matters.”

What Makes Us Different

At King’s you will not only study the various branches of chemistry and learn the fundamentals of the scientific method, but you will also develop your reasoning and analytical skills, and therefore your confidence, by doing independent work. This unique opportunity, which includes both laboratory courses and novel research, prepare you to make an immediate impact in the workforce or graduate school.

“Our most important goal is to turn our students into scientific professionals,” explains Dr. Ron Supkowski, chairperson of the chemistry department. “Our curriculum is designed so that upperclassmen are trained to work in an environment like that found in graduate school or industry. This independence is further enhanced with students doing



chemical research with our diverse faculty and summer internships at larger schools.”

It is also important to note that King’s program is certified by the American Chemical Society. This certification, which is only granted to those programs that meet a stringent set of requirements, indicates King’s commitment to continuous program improvements and to providing its students with a quality education. That quality guarantees when our students graduate they have not only earned a chemistry degree, but they have also become fully trained chemists.

Finally, the rigorous King’s College CORE curriculum provides our students with the communication, teamwork, and interdisciplinary skills required of all successful professionals no matter what their field of study.

Graduate Placement

About half our graduates attend graduate school (including Ph. D chemistry programs as well as medical and law) and half enter the workforce as teachers or industrial chemists. Over 20% of our students pursuing graduate studies are accepted to the top 25 chemistry graduate schools in the country.

To learn more about majoring in Chemistry at King’s College, please contact the Office of Admission at 1-888-KINGS PA or admissions@kings.edu.

Chemistry (120 Credit Hours - General 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.

1 st Year - Fall		cr.	1 st 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 Course		3	Core Course		3
HCE 101 Holy Cross Experience		1			
		16			15
2 nd Year – Fall			2 nd 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 238 Differential Equations		3	MATH 237 Math. Methods for the Phys. Sci.		3
Core Course		3	Core Course		3
		15			15
3 rd Year – Fall			3 rd 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 Technological Competency		1	Core Course		3
Core Course		3	Core Course		3
Core Course		3	Free Elective		3
Free Elective		3			
		15			14
4 th Year – Fall			4 th Year – Spring		
CHEM 493 Senior Colloquium		1	CHEM 494 Senior Colloquium		1
CHEM 471 Advanced Inorganic Chemistry		3	Core Course		3
Core Course		3	Core Course		3
Core Course		3	Free Elective		3
Core Course		3	Free Elective		3
Free Elective		3	Free Elective		1-3
		16			16-18
Total Credits Required for Graduation = 120					