

# CHEMISTRY – BUSINESS

## BACHELOR OF SCIENCE (B.S.)

CORE Requirements	Credits	Chemistry Requirements	Credits	Business Requirements	Credits
CORE 090 First Yr Exp.	1	CHEM 113 Gen. Chem. I	3	ECON 112 Micro Economics	3
CORE 100 Lib Arts Sem.	3	CHEM 113L Gen. Chem. I Lab	1	ECON 221 Quant Meth for Bus.& Econ	3
CORE 110 Effect Writ.	3	CHEM 114 Gen. Chem. II	3	MSB 110 Intro to Financial Reporting	3
CORE 115 or 116 Oral Comm.	3	CHEM 114L Gen. Chem. II Lab	1	MSB 120 Intro to Mgmt Control & Plan	3
CORE 131 or 133 Civilization	3	CHEM 241 Organic Chem I	3	MSB 200 Principles of Management	3
CORE 140 or 141-145 Forgn.	3	CHEM 241L Organic Chem I Lab	1	MSB 210 Principles of Marketing	3
CORE 153 Macro Econ	3	CHEM 242 Organic Chem II	3	MSB 220 Financial Management	3
CORE 160-164 Literature	3	CHEM 242L Organic Chem II Lab	1	Business Elective 1 <sup>4</sup>	3
CORE 170-179 The Arts	3	CHEM 243 Analytical Chem	3	Business Elective 2 <sup>4</sup>	3
CORE 180-189 Amer. Studies <sup>1</sup>	3	CHEM 243L Analytical Chem Lab	2		
CORE 190-199 Glbl Studies <sup>1,2</sup>	3	CHEM 244 Instrumental Analysis	3		
CORE 250-259 Syst. Theology	3	CHEM 244L Instr Analysis Lab	2		
CORE 260-269 Mor. Theology	3	CHEM 351 Chemical Info Science	1		
CORE 280 Philos. I	3	CHEM 357 Physical Chem I	3		
CORE 281-289 Philos. II <sup>3</sup>	3	CHEM 357L Physical Chem I Lab	2		
		CHEM 358 Physical Chem II	3		
		CHEM 358L Physical Chem II Lab*	2		
		CHEM 471 Advanced Inorg Chem	3		
		CHEM 493 Senior Colloquium	1		
		CHEM 494 Senior Colloquium	1		
		PHYS 113 Physics for Sci & Eng I	3		
		PHYS 113L Physics Sci & Eng I Lab	1		
		PHYS 114 Physics for Sci & Eng II	3		
		PHYS 114L Physics Sci & Eng II Lab	1		
		MATH 129 Calculus I	4		
		MATH 130 Calculus II	4		
		MATH 237 Applied Linear Algebra	3		
		MATH 238 Diff. Equations	3		
	<b>43</b>		<b>64</b>		<b>27</b>

**Total Credits = 134**

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

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

<sup>1</sup>Since CORE 153 is a course requirement, students are required to take CORE 180 OR CORE 190 to fulfill the Interdisciplinary CORE requirement.

- If a student takes CORE 180, then he/she should choose from 191 – 198 to fulfill the 19x requirement.
- If a student takes CORE 190, then he/she should choose from 181 – 188 to fulfill the 18x requirement

<sup>2</sup>Students are encouraged to take CORE 193 – Globalization to fulfill the Global Studies requirement.

<sup>3</sup>Students are encouraged to take either MSB 287 – Business Ethics, CORE 284 – Environmental Ethics, or CORE 288 – Bioethics to fulfill the Philosophy II requirement.

<sup>4</sup>Chemistry students are encouraged to pursue the following Fall/Spring course sequences to fulfill the Business Elective 1 and 2 requirements:

- Technology Management: BUS 363 – Operations Management and BUS 435 – Global Innovation, Technology & Entrepreneurship
- Manufacturing & Operations Management: MKT 385 – Supply Chain Management and BUS 363 – Operations Management
- Marketing: MKT 330 – Selling Strategies and MKT 390 – International Marketing
- Entrepreneurship: BUS 330 – Business Entrepreneurship and BUS 435 – Global Innovation, Technology & Entrepreneurship

# CHEMISTRY – BUSINESS

## 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 available semester at King's.

<b>1<sup>st</sup> Year - Fall</b>		<b>cr.</b>	<b>1<sup>st</sup> Year - Spring</b>		<b>cr.</b>
_____	CHEM 113 Gen. Chem. I	3	_____	CHEM 114 Gen. Chem. II	3
_____	CHEM 113L Gen. Chem. I Lab	1	_____	CHEM 114L Gen. Chem. II Lab	1
_____	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
_____	MATH 129 Calculus I	4	_____	MATH 130 Calculus II	4
_____	CORE	3	_____	CORE	3
_____	CORE 090 First Year Exp.	1			
		<b>16</b>			<b>15</b>
<b>2<sup>nd</sup> Year - Fall</b>			<b>2<sup>nd</sup> Year - Spring</b>		
_____	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 Diff. Equations	3
_____	CORE 153 Macro Economics	3	_____	ECON 112 Micro Economics	3
_____	CORE	3	_____	CORE	3
		<b>18*</b>			<b>18*</b>
<b>3<sup>rd</sup> Year - Fall</b>			<b>3<sup>rd</sup> Year - Spring</b>		
_____	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 Info Science	1	_____	MSB 210 Principles of Marketing	3
_____	MSB 200 Principles of Management	3	_____	MSB 120 Intro to Mgmt Control & Plan	3
_____	MSB 110 Intro to Financial Reporting	3	_____	CORE	3
_____	CORE	3	_____	CORE	3
_____	CORE	3			
		<b>18*</b>			<b>17</b>
<b>4<sup>th</sup> Year - Fall</b>			<b>4<sup>th</sup> Year - Spring</b>		
_____	CHEM 493 Senior Colloquium	1	_____	CHEM 494 Senior Colloquium	1
_____	CHEM 471 Advanced Inorg Chem	3	_____	MSB 220 Financial Management	3
_____	ECON 221 Quant. Meth. for Bus.& Econ	3	_____	Business Elective 2 <sup>4</sup>	3
_____	Business Elective 1 <sup>4</sup>	3	_____	CORE	3
_____	CORE	3	_____	CORE	3
_____	CORE	3	_____	CORE	3
		<b>16</b>			<b>16</b>

**Total Credits Required for Graduation = 134**

\*Students are encouraged to take summer courses to relieve the course load pressure during this semester.