Chemistry – Business

Bachelor of Science (BS.CHEM(BUS))

Core Require	ements		Credits	Notes/Instructions
College Sem.	Quest for Meaning	CSEM 100	3	†A student may be required to take ENGL
Communication & Creative Expression	Writing Oral Communication Literature The Arts	ENGL 110† COMM 101 ENGL 140-149 ARTS 100-149	3 3 3	105 and/or MATH 100 based on placement exams administered prior to their first semester at King's College. ENGL 105 and
Citizenship	History Intercultural Global Connections	HIST 100-149 FREN/GERM/SPAN 100-level or Study Abroad ^{††} ECON 150-199; GEOG 150-199; HIST 150-199; PS 150-199; SOC 150-199	3 3 3	MATH 100 are 3-credit courses and will count as free electives. ††The Intercultural Competence
Quantitative & Scientific Reasoning	SBM Quantitative Reasoning SBM Scientific Endeavor SCIENCE in Context Human Beh. & Soc. Inst	MATH 120 [†] or higher level NSCI 100 NSCI 171-199 ECON 111 ² , 112; GEOG 101, 102; PS 101, PSYC 101, SOC 101	- - -	requirement can be satisfied by taking a 100 level language class for credits or participating i an approved Study Abroad experience. (See
Wisdom, Faith, & the Good Life	Introduction to Phil. Phil. Investigations ³ Theology & Wisdom Theology & the Good Life	PHIL 101 PHIL 170-199; MSB 287 ³ THEO 150-159 THEO 160-169	3 3 3 3	college catalog for more information) SBM = Satisfied By Majorequirement and creditalisted below.
		Total Core Credits	36	

Major Requirements	Credits	Major Requirements	Credits	Business Requirements	Credits
CHEM 113 ²	3	CHEM 114PR	3	ECON 111 ²	3
CHEM 113L	1	CHEM 114LPR	1	ECON 112	3
CHEM 241 ^{PR}	3	CHEM 242 ^{PR}	3	ECON 221	3
CHEM 241LPR	1	CHEM 242LPR	1	MSB 110	3
CHEM 243 ^{PR}	3	CHEM 244 ^{PR}	3	MSB 120	3
CHEM 243LPR	2	CHEM 244LPR	2	MSB 200	3
CHEM 357 ^{PR}	3	CHEM 358 ^{PR}	3	MSB 210	3
CHEM 357LPR	2	CHEM 358LPR,*	2	MSB 220	3
CHEM 351 ^{PR}	1	CHEM 471 ^{PR}	3	Business Elective 1 ⁴	3
CHEM 493 ^{PR}	1	CHEM 494PR	1	Business Elective 2 ⁴	3
MATH 129 ²	4	MATH 130 ^{PR}	4		
MATH 237 ^{PR}	3	MATH 238 ^{PR}	3		
PHYS 113 ^{2,CR}	3	PHYS 114 ^{PR}	3		
PHYS 113L	1	PHYS 114L ^{PR}	1		
		Other Requirements			
	_	HCE 101 Holy Cross Exp.	1		
		Total Major and			
Total Major Credits	31	Other Credits	33	Total Business Credits	30

Total Credits Required for Graduation = 131

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

The four (4) courses below:								
CHEM 358L*	2 cr	CHEM 353***	3 cr	AND	CHEM 359	CHEM 473	CHEM 476	CHEM 479
CHEM 471L	2 cr	CHEM 353L	2 cr		CHEM 373	CHEM 475	CHEM 477	CHEM 490

^{*}CHEM 358L may be replaced by a semester of research (CHEM 396, CHEM 397, CHEM 496, CHEM 497), but must be taken for American Chemical Society certification

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 <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."

^{**} Or any other CHEM course numbered 359 or higher approved by the chair-person of the Chemistry Department

^{***}BIOL 353 may substitute for CHEM 353

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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.

Fall 2022	Credits	Spring 2023	Credits
CHEM 113 ² General Chemistry I	3	CHEM 114PR General Chemistry II	3
CHEM 113L General Chemistry I Lab	1	CHEM 114LPR General Chemistry II Lab	1
MATH 129 ² Analytic Geometry & Calculus I	4	MATH 130 ^{PR} Analytic Geometry & Calculus II	4
PHYS 113 ^{2,CR} Physics for Scientists & Engineers I	3	PHYS 114 ^{PR} Physics for Scientists & Engineers II	3
PHYS 113L Physics for Sci. & Eng. I Lab	1	PHYS 114L ^{PR} Physics for Sci. & Eng. II Lab	1
Core Course ¹	3	Core Course ¹	3
HCE 101 Holy Cross Experience	1		
	16		15
Summer	Credits		
Fall 2023	Credits	Spring 2024	Credits
CHEM 241 ^{PR} Organic Chemistry I	3	CHEM 242 ^{PR} Organic Chemistry II	3
CHEM 241L ^{PR} Organic Chemistry I Lab	1	CHEM 242L ^{PR} Organic Chemistry II Lab	1
CHEM 243 ^{PR} Analytical Chemistry	3	CHEM 244 ^{PR} Instrumental Analysis	3
CHEM 243L ^{PR} Analytical Chemistry Lab	2	CHEM 244L ^{PR} Instrumental Analysis Lab	2
MATH 238 ^{PR} Differential Equations	3	MATH 237 ^{PR} Math. Methods for the Phys. Sci.	3
ECON 111 ² Introduction to Macroeconomics	3	ECON 112 Introduction to Microeconomics	3
Core Course ¹	3	Core Course ¹	3
	185		18 ⁵
Summer	Credits		
Fall 2024	Credits	Spring 2025	Credits
CHEM 357 ^{PR} Physical Chemistry I	3	CHEM 358 ^{PR} Physical Chemistry II	3
CHEM 357LPR Physical Chemistry I Lab	2	CHEM 358L ^{PR} Physical Chemistry II Lab	2
CHEM 351 ^{PR} Technological Competency	1	MSB 120 Intro. To Mgmt. Control & Planning	3
MSB 110 Intro. To Financial Reporting	3	MSB 210 Principles of Marketing	3
MSB 200 Principles of Management	3	Core Course ¹	3
Core Course ¹	3	Core Course ¹	3
	15		17
Summer	Credits		
		Curtin = 202C	Credits
Fall 2025	Credits	Spring 2026	
Fall 2025 CHEM 493 ^{PR} Senior Colloquium I	Credits 1	Spring 2026 CHEM 494 ^{PR} Senior Colloquium II	1
CHEM 493 ^{PR} Senior Colloquium I	1	CHEM 494 ^{PR} Senior Colloquium II	1
CHEM 493 ^{PR} Senior Colloquium I CHEM 471 ^{PR} Advanced Inorganic Chemistry	1 3	CHEM 494 ^{PR} Senior Colloquium II MSB 220 Financial Management	3
CHEM 493 ^{PR} Senior Colloquium I	1	CHEM 494 ^{PR} Senior Colloquium II	
CHEM 493 ^{PR} Senior Colloquium I CHEM 471 ^{PR} Advanced Inorganic Chemistry ECON 221 Statistics and Predictive Analytics	1 3 3	CHEM 494 ^{PR} Senior Colloquium II MSB 220 Financial Management Business Elective 2 ⁴	3
CHEM 493 ^{PR} Senior Colloquium I CHEM 471 ^{PR} Advanced Inorganic Chemistry ECON 221 Statistics and Predictive Analytics Business Elective 1 ⁴	1 3 3 3	CHEM 494 ^{pr} Senior Colloquium II MSB 220 Financial Management Business Elective 2 ⁴ Core Course ¹	3 3 3

NOTES:

MATH 129 will satisfy the Quantitative Reasoning Core requirement. ECON 111 will satisfy the Human Behavior & Social Institutions Core requirement.

- Technology Management: BUS 363/L Operations Management with Lab and BUS 435 Global Innovation, Technology & Entrepreneurship
- Manufacturing & Operations Management: MKT 385 Global Supply Chain Management and BUS 363/L Operations Management with Lab
- Marketing: MKT 330 Selling Strategies and MKT 390 International Marketing
- Entrepreneurship: BUS 330 –Entrepreneurship Business Management and BUS 435 Global Innovation, Technology & Entrepreneurship
- Accounting: ACCT 240/L Intermediate Accounting I with Lab and ACCT 301 Intermediate Accounting II

¹Choose one course from each of the Core Requirements listed on the reverse side.

² Course may satisfy both a Major and a Core requirement. CHEM 113 and PHYS 113 will satisfy the Scientific Endeavor and Science in Context Core requirements.

³ Students are encouraged to take either MSB 287 – Business Ethics to fulfill the Philosophical Investigation Core requirement.

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

⁵ Students are encouraged to take summer courses to relieve the course load pressure during this semester.

PR Course has a prerequisite – check college catalog.

^{CR} Course has a co-requisite – check college catalog.