

2019-2020
B.A. or B.S. CHEMISTRY



GRACE CORE (39 credits; 2 APLs)

The Grace Core is designed around four essential relationships. Though all courses engage most relationships, courses are organized according to the relationship that is their primary focus.

Relationship to God		Relationship to Others		
BIB 1050	Exploring the Bible	3	COM 1100 Public Speaking	3
@ BIB 2010	Scripture and Interpretation	3	ENG 1100 Effective Writing	3
@ BIB 3300	Essential Doctrinal Themes	3	PSY 1200 Essentials in Behavioral Science	3
Relationship to Self		Relationship to the World and Environment		
FYE 1000	First-Year Foundations	3	HIS 1380 Contemporary American and the World	3
ECN 3000	Consumer Economics	3	HUM 2000 Global Perspectives	3
@ PHI 3010	Christianity and Critical Thinking	3	HUM 2010-30 Cross-cultural Field Experience (2 APL)	0
			HUM 2100 Creative Arts & Culture	3
			SCI 2030 Faith, Science, and Reason	3

ADDITIONAL GENERAL EDUCATION--B.A. or B.S. DEGREE (6 credits)

Satisfies B.S. Degree		Satisfies B.A. Degree		
MAT 1000+	Any Math (1000 Level and Above)	3	FRE/SPA Proficiency in Language & Culture	6
	Any Science/Social Science with the following course prefix: PSY, BHS, SOC, ENC, HIS, POS, GEO, CHM	3	GRE/HEB French, Spanish, Greek, Hebrew	

THE MAJOR (42-45 credits; 10-12+ APLs)

REQUIRED CHEMISTRY COURSES		REQUIRED PHYSICS AND MATH COURSES		
CHM 1610	General Chemistry I	4	PHY 2140 College Physics I	4
CHM 1620	General Chemistry I Lab (1 APL)	0	PHY 2150 College Physics I Lab (1 APL)	0
CHM 1710	General Chemistry II	4	PHY 2160 College Physics II	4
CHM 1720	General Chemistry II Lab (1 APL)	0	PHY 2170 College Physics II Lab (1 APL)	0
CHM 2610	Organic Chemistry I	4	MAT 1230 Calculus I	4
CHM 2620	Organic Chemistry I Lab (1 APL)	0	MAT 1240 Calculus I Lab (1 APL)	0
CHM 2710	Organic Chemistry II	4		
CHM 2720	Organic Chemistry II Lab (1 APL)	0	Choose 1 of the Following	
@ BIO 2310	Biochemistry	3	CHM 4730 Internship in Chemistry (1-3 APL)	1-3
@ CHM 3610	Environmental Analytical Chemistry (1 APL)	3	CHM 4810 Research in Chemistry (1-3 APL)	1-3
@ CHM 4610	Physical Chemistry	4		
CHM 4620	Physical Chemistry Lab (1 APL)	0	Choose 1 of the Following +	
			@ MAT 1250/1260 Calculus II and Lab (1 APL)	4
			MAT 3200 Probability and Statistics	3
			Suggested Elective for Graduate School	
			@ CHM 4700 Advanced Inorganic Chemistry	3

GRADUATION REQUIREMENTS

To receive a degree, each student must satisfy checksheet requirements, earn 120 credit hours, fulfill 12 credits of Applied Learning, have a 2.2 GPA in major courses, and a GPA of 2.0 overall. It is the student's responsibility to work with his/her advisor and monitor progress toward these goals. Some majors and/or minors may have more stringent guidelines.

It is strongly encouraged that a minimum of 6 Applied Learning credits be earned in experiential education taking place outside the traditional classroom setting.

IS A MINOR REQUIRED WITH THIS MAJOR? YES

Notes about this major:

Courses include a Biology Minor

+In addition to 3 hours of Bachelor of Science math requirement

CHECKSHEET TOTAL CREDITS: 87-90

CHECKSHEET TOTAL APL: 12-15

TOTAL CREDITS NEEDED TO GRADUATE: 120 (12 APLs)

† Indicates a course taught by a partner college/university.

@ Indicates a course with prerequisites. Please review catalog for prerequisites.