

2022-2023

**B.A. or B.S. CHEMISTRY****GRACE CORE (39 credits)**

*Students will integrate faith and learning across disciplines, demonstrate foundational knowledge and ways of knowing, cultivate characteristics of maturity in relationships with God, others, self, and the world, and apply knowledge to all aspects of life through intellectual and practical skills.*

**1000-Level Courses****First-Year Learning Communities**

FYE 1000	First-Year Foundations	3
BIB 1050	Exploring the Bible	3
PSY 1200	Essentials of Behavioral Science	3
HIS 1050	Current Issues in Historical Context	3

**First-Year Learning Competencies**

ENG 1100	Effective Writing	3
COM 1100	Public Speaking	3

**2000-Level Courses**

HUM 2100	Creative Arts & Culture	3
HUM 2000	Global Perspectives	3
SCI 2030	Faith, Science, & Reason	3
HUM 2010-30	Cross-Cultural Field Experience	0
@ BIB 2010	Scripture and Interpretation	3

**3000-Level Courses**

ECN 3000	Consumer Economics	3
PHI 3010	Christianity and Critical Thinking	3
@ BIB 3300	Essential Doctrinal Themes	3

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

MAT 1000+	Any Math (1000 Level and Above)	3
Any Science/Social Science with the following course prefix:		3
PSY, BHS, SOC, ENC, HIS, POS, GEO, CHM		

**Satisfies B.A. Degree**

FRE/SPA	Proficiency in Language & Culture	6
GRE/HEB	French, Spanish, Greek, Hebrew	

**THE MAJOR (44-47 credits)****REQUIRED CHEMISTRY COURSES (26 credits)**

CHM 1610	General Chemistry I	4
CHM 1620	General Chemistry I Lab	0
CHM 1710	General Chemistry II	4
CHM 1720	General Chemistry II Lab	0
CHM 2610	Organic Chemistry I	4
CHM 2620	Organic Chemistry I Lab	0
CHM 2710	Organic Chemistry II	4
CHM 2720	Organic Chemistry II Lab	0
@ BIO 2310	Biochemistry	3
@ CHM 3610	Environmental Analytical Chemistry	3
@ CHM 4610	Physical Chemistry	4
CHM 4620	Physical Chemistry Lab	0

**REQUIRED PHYSICS AND MATH COURSES (12 credits)**

@ PHY 2140	University Physics I	4
@ PHY 2150	University Physics I Lab	0
@ PHY 2160	University Physics II	4
@ PHY 2170	University Physics II Lab	0
MAT 1230	Calculus I	4
MAT 1240	Calculus I Lab	0
<b>Choose 1 of the Following (3 credits)</b>		
CHM 4730	Internship in Chemistry	3
CHM 4810	Research in Chemistry	3
<b>Choose 1 of the Following + (3 credits)</b>		
@ MAT 1250	Calculus II	3
MAT 3200	Probability and Statistics	3

**Suggested Elective for Graduate School**

@ CHM 4700	Advanced Inorganic Chemistry	3
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**GRADUATION REQUIREMENTS**

To receive a degree, each student must satisfy checksheet requirements, earn 120 credit hours, 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.

**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: 89-92****TOTAL CREDITS NEEDED TO GRADUATE: 120**

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

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