

2018-2019

**B.A. or B.S. HEALTH SCIENCE - OPTOMETRY CONCENTRATION**



**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.

<b>Relationship to God</b>		<b>Relationship to Others</b>			
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
<b>Relationship to Self</b>		<b>Relationship to the World and Environment</b>			
FYE 1010	Freshman Foundations	3	HIS 1380	Contemporary America 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 and Culture	3
			SCI 2030	Faith, Science, and Reason	3

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

<b>Satisfies B.S. Degree</b>		<b>Satisfies B.A. Degree</b>			
MAT 3200	Probability and Statistics	3	FRE/SPA	Proficiency in Language & Culture	6
PHY 1100	Introduction to Psychology	3	GRE/HEB	French, Spanish, Greek, Hebrew	

**THE MAJOR (42 credits; 10 APLs)**

<b>REQUIRED SCIENCE COURSES</b>		<b>REQUIRED MATHEMATICS/PHYSICAL SCIENCES</b>			
BIO 1610	General Biology I	4	@ PHY 2140	College Physics I	4
BIO 1620	General Biology I Lab (1 APL)	0	@ PHY 2150	College Physics I Lab (1 APL)	0
@ BIO 1710	General Biology II	4	@ PHY 2160	College Physics II	4
@ BIO 1720	General Biology II Lab (1 APL)	0	@ PHY 2170	College Physics II Lab (1 APL)	0
BIO 2100	Health Sciences Seminar	1	MAT 1230	Calculus I	4
ENV 2110	General Ecology	4	MAT 1240	Calculus I Lab (1 APL)	0
ENV 2120	General Ecology Lab (2 APL)	0			
@ BIO 3110	Cell and Molecular Biology	3			
@ BIO 3210	Advanced Anat & Phys I	4			
@ BIO 3220	Advanced Anat & Phys I lab (1 APL)	0			
@ BIO 4110	Microbiology	4			
@ BIO 4120	Microbiology Lab (1 APL)	0			
@ BIO 4210	Genetics	3			
@ BIO 4010	Senior Seminar (1 APL)	3			

**TOTAL CREDITS TO GRADUATE: 120 (12 APLs)**

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.

**A CHEMISTRY MINOR IS REQUIRED WITH THIS CONCENTRATION**  
(adds 19 credits and 4 APLs)

\*In addition to 3 hours of math for BS degree, if chosen

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

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