

BS Biomedical Sciences Curriculum

Year 1					
Fall Semester			Spring Semester		
BIO 111	General Biology I	4	BIO 121	General Biology II	4
CHE 111	General Chemistry I	4	CHE 121	General Chemistry II	4
COM 115	Principles of Communications	3	HUM 1XX	Humanities Methods and Approaches Selective	3
HUM 115	Voice and Identity	3	MAT 121	Calculus I	4
	Total	14		Total	15

Year 2					
Fall Semester			Spring Semester		
CHE 211	Organic Chemistry I	4	CHE 221	Organic Chemistry II	4
HUM 2XX	Science and Health Through the Humanities Lens Selective	3	MAT 145	Elementary Statistics	3
PHY 212	College Physics I	4	PHY 222	College Physics II	4
PSY 101	General Psychology	3	SOC 101	Introduction to Sociology	3
				Elective 1	3
	Total	14		Total	17

Year 3					
Fall Semester			Spring Semester		
BIO 210	Microbiology	4	BIO 300	Developmental Biology	3
BIO 330	Principles of Ecology & Evolution	3	BIO 346	Cell Biology	3
BIO 335	Genetics	3	BIO 347	Cell Biology Lab	1
CHE 311/ PSC 311	Biochemistry	3	PSC 312	Molecular Biology	3
	Elective 2	3		Elective 3	3
				Elective 4	3
	Total	16		Total	16

Year 4					
Fall Semester			Spring Semester		
BIO 213	Anatomy and Physiology I	3	BIO 215	Anatomy and Physiology II	3
BIO 214	Anatomy and Physiology I Lab	1	BIO 216	Anatomy and Physiology II Lab	1
BIO 253	Scientific Communication	2		Biology Selective 2	3-4
PSC 315	Immunology	3		Biology Selective 3	3-4
	Biology Selective 1	3-4		Elective 6	3
	Elective 5	3			
	Total	15-16		Total	13-14

BS Biomedical Sciences Program Requirements

Course Number	Course Name	Credits
GENERAL EDUCATION = 59 credits		
Science and Math (39 credits)		
BIO 111	General Biology I	4
BIO 121	General Biology II	4
CHE 111	General Chemistry I	4
CHE 121	General Chemistry II	4
CHE 211	Organic Chemistry I	4
CHE 221	Organic Chemistry II	4
MAT 121	Calculus I	4
MAT 145	Elementary Statistics	3
PHY 212	College Physics I	4
PHY 222	College Physics II	4
Humanities and Social Sciences (15 credits)		
HUM 115	Voice and Identity	3
HUM 1XX	Humanities Methods and Approaches Selective	3
HUM 2XX	Science and Health through the Humanities Lenses Selective	3
PSY 101	General Psychology	3
SOC 101	Introduction to Sociology	3
Communication (5 credits)		
BIO 253	Scientific Communication	2
COM 115	Principles of Communication	3
FREE ELECTIVES (selected from courses classified as Liberal Arts and Sciences) = 18 credits		
MAJOR COURSES = 44 credits		
Core Courses (34 credits)		
BIO 210	Microbiology	4
BIO 213	Anatomy and Physiology I	3
BIO 214	Anatomy and Physiology I Lab	1
BIO 215	Anatomy and Physiology II	3
BIO 216	Anatomy and Physiology II Lab	1
BIO 300	Developmental Biology	3
BIO 330	Principles of Ecology and Evolution	3
BIO 335	Genetics	3
BIO 346	Cell Biology	3
BIO 347	Cell Biology Lab	1
CHE 311/PSC 311	Biochemistry	3
PSC 312	Molecular Biology	3
PSC 315	Immunology	3
Biology Elective Courses (10 credits)*		
BIO 290	Independent Study	1-6
BIO 345	Journal Club	1
BIO 490	Independent Study	1-6
BIO 625	Advanced Molecular Biology	3
BIO 630	Advanced Cell Biology	3
BIO 740	Genetics and Molecular/of Disease	3
BIO XXX	Biology Internship	1-6
PBH 350	Epidemiology	3
*Other courses may be substituted for Biology Selectives with Program Director approval.		
Total Credits: General Education (59), Free Electives (18), Majors Courses (44) = 121 credits		

