

BIOLOGY, B.S.

Requirements

Code	Title	Hours
General Education Program		
	Understanding College (FS)	1
	Writing and Presentation (WR11 & OC1)	6
	Mathematics (QR1)	3-4
	Information Literacy, Media, and Research (ITML)	3
	Creative Voices Across Cultures (HCE)	6
	Science at Work (NPW)	6-10
CHE-1201	General Chemistry I	
CHE-1201L	General Chemistry I Lab	
CHE-1202	General Chemistry II	
CHE-1202L	General Chemistry II Lab	
	Ethics, Reality, and Logic (PEM)	6
	Individuals and Societies (SEH)	6
	Our World, Past and Present (WHG)	6
	Personal Wellness (FH)	2-3
	Religion and Culture (RS)	3
Biology Major		
BIO-1201	General Biology 1	3
BIO-1201L	General Biology 1 Laboratory	2
BIO-1202	General Biology 2	3
BIO-1202L	General Biology 2 Laboratory	2
BIO-2250	Introduction to Cell Biology	3
BIO-2250L	Introduction to Cell Biology Laboratory	1
BIO-3303	Genetics	3
BIO-3303L	Genetics Laboratory	1
BIO-4998	Biology Seminar	1
BIO Distribution, select one course in each group ¹		15-16
	Select one course from Group A below	
	Select one course from Group B below	
	Select one course from Group C below	
	Select one BIO course 2000 or higher	
CHE-2101	Organic Chemistry I	4
CHE-2101L	Organic Chemistry I Laboratory	1
CHE-2102	Organic Chemistry II	4
CHE-2102L	Organic Chemistry II Laboratory	1
CHE-3001	Biochemistry	3
CHE-3001L	Biochemistry Laboratory	1
MAT-2202	Calculus I	4
Select one of the following courses:		3-4
MAT-2203	Calculus II	
MAT-2301	Statistics	
PHY-2001	General Physics I	3
PHY-2001L	General Physics I Laboratory	1
PHY-2002	General Physics II	3
PHY-2002L	General Physics II Laboratory	1

General Electives ²	13
Total Hours	124-132

The successful completion of BIO-4998 Biology Seminar satisfies the College's Comprehensive Examination/Thesis requirement.

¹ Three of these electives must be four credit laboratory courses.

² All majors are strongly encouraged to become conversant in a language other than English.

Group A –Population Biology Ecology and Evolution

Code	Title	Hours
Select one of the following courses:		4
BIO-2203	Invertebrate Zoology	
BIO-2204	Ecology	
BIO-2280	Evolution	
BIO-3302	Botany	
BIO-4005	Topic: Parasitology	
Total Hours		4

Group B –Molecular and Cellular Biology

Code	Title	Hours
Select one of the following courses:		4
BIO-2206	Histology	
BIO-3310	Advanced Cell Biology	
BIO-3320	Molecular Biology	
BIO-4405	Immunology	
BIO-4480	Bioinformatics	
Total Hours		4

Group C –Organismal Biology

Code	Title	Hours
Select one of the following courses:		3-4
BIO-2202	Comparative Anatomy	
BIO-2210	Developmental Biology	
BIO-3300	Microbiology	
BIO-3350	Physiology	
BIO-4409	Neurobiology	
BIO-4420	Virology	
BIO-4403	Endocrinology	
BIO-4450	Pharmacology	
Total Hours		3-4

In keeping with our mission at St. Francis College, the courses you take courses across the liberal arts ensure that you are well-rounded, able to engage in meaningful thought and conversation both within and outside of your area of expertise, and building a foundation for future success by deepening and broadening your knowledge. Building on First Year Foundations and augmenting your major field of study, the combination of courses in the Bodies of Knowledge prepares you to meet the challenges the world presents to you with intelligence, clarity, and empathy. They will equip you to solve complex problems, contribute to your community, and improve the world you inhabit.

Institutional Learning Outcomes:

1. Demonstrate sensitivity to creative expression
2. Communicate ideas and information through written, oral, visual and digital media
3. Employ critical and analytical skills
4. Value diverse perspectives of the human experience
5. Implement information, technology and media literacy
6. Demonstrate quantitative literacy

Foundation Courses- First Year College (13-14 credits)

St. Francis College's mission, emphasizing Franciscan education, highlights access and opportunities for all students. In your first year at SFC, you will combine key skill development with courses in the liberal arts and in your areas of interest. Each of these courses and categories is essential to your success in college and beyond. Our First Year Foundations program ensures that all students will be equitably prepared to excel and achieve their goals.

Bodies of Knowledge (35 credits)

At St. Francis College, our Franciscan mission states that we "educate the whole person for a full, relational life." This means that we strive, by making certain you take courses across the liberal arts, to ensure that you are well-rounded, able to engage in meaningful thought and conversation both within and outside of your area of expertise, and create success by deepening and broadening your knowledge. Building on First Year Foundations and augmenting your major field of study, the combination of courses in the Bodies of Knowledge prepare you to meet the challenges the world presents to you with intelligence, clarity, and empathy. They will equip you to solve complex problems, contribute to your community, and improve the world you inhabit.