

# CHEMISTRY, BS

The major in Chemistry provides student with excellent preparation for medical school and other professional schools, graduate studies, teaching, research, laboratory work, and a variety of other science-related opportunities. You will find Chemistry to be a challenging, yet rewarding, subject and we suggest that you maintain a GPA of 3.0 in your early major courses (e.g. 1201/1202).

## Requirements

Code	Title	Hours
<b>General Education Program</b>		
	Understanding College (FS)	1
	Writing and Presentation (WR11 and 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
BIO-1201	General Biology 1	
BIO-1202	General Biology 2	
	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
<b>Chemistry Major</b>		
CHE-1201	General Chemistry I	4
CHE-1201L	General Chemistry I Lab	1
CHE-1202	General Chemistry II	4
CHE-1202L	General Chemistry II Lab	1
CHE-2050	Analytical Chemistry	3
CHE-2050L	Analytical Chemistry Laboratory	1
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-2301	Inorganic Chemistry	3
CHE-2301L	Inorganic Chemistry Laboratory	1
CHE-3001	Biochemistry	3
CHE-3001L	Biochemistry Laboratory	1
CHE-4001	Physical Chemistry I	3
CHE-4001L	Physical Chemistry 1 Laboratory	1
CHE-4002	Physical Chemistry 2	3
CHE-4002L	Physical Chemistry 2 Laboratory	1
CHE-4050	Instrumental Methods of Analysis	3
CHE-4050L	Instrumental Methods of Analysis Laboratory	1
CHE-4998	Senior Project	3
MAT-2202	Calculus I	4
MAT-2203	Calculus II	4
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 <sup>1</sup>	9
<b>Total Hours</b>	<b>120-126</b>

<sup>1</sup> All majors are advised to gain computer and/or second language proficiency.

In keeping with our mission at St. Francis College, the courses you take 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.