

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). 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.

Requirements

Code	Title	Hours
General Education Program		
Writing (WR)		3
Quantitative Literacy (QR)		3-4
Oral Communications (OC)		3
Fitness/Health (FH)		2-3
Information, Technology & Media Literacy (ITML)		3
Religious Studies (RS)		3
Freshman Seminar (FS)		1
Humanistic & Creative Expression (HCE)		6
Natural & Physical World (NPW)		6-10
BIO-1201	General Biology I	
BIO-1202	General Biology II	
Philosophical, Ethical & Moral Dimensions (PEM)		6
Environment & Human Experience (SEH)		6
World Heritage & Global Perspectives (WHG)		6
Chemistry Major		
CHE-1201	General Chemistry I	5
CHE-1202	General Chemistry II	5
CHE-2050	Analytical Chemistry	4
CHE-2101	Organic Chemistry I	5
CHE-2102	Organic Chemistry II	5
CHE-2301	Inorganic Chemistry	4
CHE-3001	Biochemistry	4
CHE-4001	Physical Chemistry I	4
CHE-4002	Physical Chemistry II	4
CHE-4050	Instrumental Methods of Analysis	4
CHE-4998	Senior Project	3
MAT-2202	Calculus I	4
MAT-2203	Calculus II	4
PHY-2001	General Physics I	4
PHY-2002	General Physics II	4
General electives ¹		9
Total Hours		120-126

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

The General Education Program is the academic cornerstone of St. Francis College and affirms its mission to graduate educated, well-

rounded students to enter and participate in a changing and culturally diverse world.

As an integrated program of studies, it focuses on developing the skills expected of a liberally educated person. It provides students with a broadly-based foundation outside their areas of specialization, an understanding of how various disciplines intersect and differ, and assists in cultivating a disposition for lifelong learning.

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 (18 credits)

To ensure refinement of basic reasoning and cognitive skills needed for successful completion of any college degree program, the general education program requires 18 credits in foundational courses targeting student learning outcomes (SLOs) in writing; quantitative reasoning; oral communications; information, technology, and media literacy; fitness or health; religious studies; and the Freshman Seminar. Each student is required to successfully complete one course in each of the areas of the First Year College.

Bodies of Knowledge (30 credits)

A selection of 30 credits in broad areas of inquiry, designated as Bodies of Knowledge, allow students the flexibility to gain breadth and depth in a field outside of a major. Each student is required to successfully complete two different courses in each of the five Bodies of Knowledge.