

COMPUTER SCIENCE, BS

Code	Title	Hours
General Education Program		
Understanding College (FS)		1
Writing and Presentation (WRI1 & OC1)		6
Mathematics (QR1)		4
MAT-2202	Calculus I	
Information Literacy, Media and Research (ITML)		3
IT-1001	Computer Tools	
Creative Voices Across Culture (HCE)		6
Science at Work (NPW)		6-10
Ethics, Reality, and Logic (PEM)		6
PHI-1114	Logic and Argumentation	
Individual and Societies (SEH)		6
Our World, Past and Present (WHG)		6
Personal Wellness (FH)		2-3
Religion and Culture (RS)		3
Computer Science Major		
CS-1000	Introduction to Computer Science	3
CS-2000	Discrete Structures	3
CS-3000	Software Engineering	3
CS-4998	Computer Science Capstone Project	3
IT-1103	Computer-Based Information Systems	3
IT-1104	Programming I	3
IT-2105	Programming II	3
IT-2201	Telecommunications and Networking	3
IT-2510	Database Management Systems	3
IT-3101	Information Technology Law and Ethics	3
IT-3301	Project Management	3
IT-3510	Data Structures	3
IT-3540	Computer Architecture and Organization	3
IT-3680	Operating Systems	3
MAT-2203	Calculus II	4
Computer Science Electives		
Select FOUR of the following courses		12-13
IT-2410	Web Design	
IT-2420	Multimedia Design and Technologies	
IT-2440	Scripting Languages	
IT-3220	Computer and Network Security	
IT-3240	Linux	
MAT-2306	Introduction to Cryptography	
MAT-3304	Calculus III	
MAT-3312	Linear Algebra	
MAT-4415	Probability Theory	
MAT-4416	Mathematical Statistics II	
Liberal Arts Electives		7
General Electives		6
Total Hours		120-126

Students pursuing a Bachelor of Science degree must complete 1/2 of their degree credits (i.e. minimum 60 credits) from courses in

the Liberal Arts category. For specific academic subjects, see here (<https://catalog.sfc.edu/catalogue/general-information/academic-life/academic-policies/#liberalarts>).

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.