



Computer Science Example Programs of Study
BS CS (ENT)
Option B (with Recommendations for Bioinformatics)

Fall			Winter			Spring		
Freshman								
MATH 263A	Calculus	4	CS 240A	Intro. To Computer Science	5	CS 240B	Intro. To Computer Science	4
EE102	Intro to CpE	4	MATH 263B	Calculus	4	MATH 263C	Calculus	4
	Freshman Composition	5	CHEM 151	Chemistry Fundamentals I	5	CS 265	Computer Ethics	1
PBIO 114 ¹	Foundations of Biology	5	PBIO 115 ¹	Structural Biology	4	CHEM 152	Chemistry Fundamentals II	5
/BIOS 170			/BIOS 171			PBIO 331 ¹	Genetics	4/5
						/BIOS 325		
Sophomore								
CS 240C	Intro. To Computer Science	4	CS 300	Discrete Structures	5	CS 361	Data Structures	5
MATH 263D	Calculus	4		Hum and Soc. Sciences	4	MATH 410	Matrix Theory	4
CHEM 153	Chemistry Fundamentals III	5	BIOS 427 ²	Gene Regulation	3	PBIO 431 ²	Cell Biology	5/4
PBIO 427 ¹	Molecular Genetics	3		Hum. or Soc. Sci.	4-6	/BIOS 320		
Junior								
CS 404	Design & Analysis of Alg's	5	CS 320	Org. of Prog. Languages	5	CS 406	Computation Theory	5
EE 371	Appl'd Prob. and Stats.	4	CS 410 ³	Formal Languages	5		Junior Composition	4
	Hum. or Soc. Sci.	5		Hum. or Soc. Sci.	4-6		Hum. or Soc. Sci.	6-8
CS 4XX ³	Bioinformatics I	4	EE 395A	ECE Design I	4			
Senior								
CS 442	Op. Sys. & Comp. Arch. I	5	CS 4XX ²	Bionformatics II	4	CS 456	Software Design	5
CS 480 ³	Artificial Intelligence	5		Hum. or Soc. Sci.	6-8	CS 462 ³	Database Systems I	5
	Hum. or Soc. Sci.	6-8	PBIO 415 ²	Quantitative Methods	4		Hum. or Soc. Sci.	3-5

¹ Required for Option B. This program of study assumes that students have completed 2 years of HS foreign language. For those students with less than 2 years HS foreign language, a year of college foreign language is required.

² Free elective suggestion for those wishing to pursue a bioinformatics career.

³ Computer science technical elective suggestions for those wishing to pursue a bioinformatics career.

This document is advisory and not an official statement of the requirements for a degree. Please see the undergraduate catalog for your official degree requirements.