

Physics, with a concentration/emphasis Interdisciplinary Science: Computer Science Focus

All concentrations/emphasis areas are 24 hours in total. The required hours for the concentration or emphasis area are listed in the top section. The student can choose from the list of courses in the second section to complete the 24 hour requirement.

The Interdisciplinary Science emphasis area is made up of courses drawn from one or more disciplines, departments or programs, with a single coherent focus in one of the following areas: Biology, Chemistry, Computer Science, Geology, Mathematics, Medical Physics or Statistics. Some of these options satisfy the requirements for a minor in the focus area, as indicated.

More information can be found on the departmental website for computer science, or the bulletin.

Computer Science Focus for Physics B.S.		
with a concentration in interdisciplinary science		
Computer Science Minor		12
Note: a CS minor requires 12 hours of CS courses at the 2000 level and above excluding CS 4900 and CS 3520		
Note: Courses with a * contribute to the Data Science Certificate		
Used from 24 hours		12
Leftover		12
Choose remaining 12 hours from:		
CS 2440*	Computer Science II	4
CS 2435*	Intro to Scientific Programming	4
CS 2450	Intro to Comp Sys	3
CS 2490	Intro Theoretical Comp Sci	3
CS 3430	Databases	3
CS 3460	Data Structures	3
CS 3435*	Data Collection and Visualization	3
CS 3440	Client-side Web Programming	3
CS 3463	Simulation	3
CS 3481	Comp Sys I	3
CS 3482	Comp Sys II	3
CS 3490	Programming Languages	3

CS 3667	Software Engineering	3
CS 3750	App Neural Net	3
CS 4440	Artificial Intelligence	3
CS 4435	Server-side Web Programming	3
CS 4555	Machine Learning	3
CS 4570	Human-Comp Interfaces	3
CS 4680	Embedded Systems	3
CS 4755*	Applied Machine Learning	3
MAT 2240*	Linear Alg	3
STT 3850*	Statistical Data Analysis 1	3
PHY 2700	Computer Interfacing	3
PHY 4330	Digital Electronics	4
PHY 4020	Computational Methods	3