

Physics, with a concentration/emphasis Interdisciplinary Science: Mathematics 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 mathematics, or the bulletin. Note: The required calculus sequence is required of all majors, and cannot be used in the hours counted towards the concentration/emphasis area.

Mathematics focus for Physics B.S. with a concentration in interdisciplinary science		
Mathematics Minor		
9 hours of MAT electives excluding 2030, 3015, 3030, 3520, 39xx, 4015, 49xx or CI 3030		9
	excluded classes are math ed	
Used from 24 hours		9
Leftover		15
Choose 15 remaining hours from:		
MAT 2110	Techniques of proof	4
MAT 2240	Linear Algebra	3
MAT 2310	Computational Mathematics	3
MAT 3110	Introduction to Modern Algebra	3
MAT 3130	Introduction to Differential Equations	3
MAT 3220	Introduction to Real Analysis I	3
MAT 3310	Discrete and Continuous Mathematical Models	3
MAT 3350	Introduction to Mathematical Biology	3
MAT 3610	Introduction to Geometry	3
MAT 4140	Differential Geometry	3
MAT 4220	Introduction to Real Analysis II	3

MAT 4310	Numerical Methods	3
MAT 4420	Dynamical Systems Theory	3
MAT 4590	Advanced Topics in Differential Equations	3
MAT 4710	Introduction to Topology	3