PHYSICS (COMPUTATIONAL PHYSICS), B.S.

Requirements for a Major in Physics (Computational Physics)

Code	Title	Hours
Thirty-six semester hours including:		
Required Courses		
PHY 1420	General Physics I	4
PHY 1430	General Physics II	4
PHY 2135	Basic Electronics Laboratory	1
PHY 2190	Introduction to Research in Physics	1
PHY 2350	Modern Physics	3
PHY 2360	Mathematical and Computational Physics	3
PHY 3175	Intermediate Physics Laboratory I	1
PHY 3320	Intermediate Classical Mechanics	3
PHY 3330	Intermediate Electricity and Magnetism	3
PHY 3372	Introductory Quantum Mechanics I	3
PHY 3373	Introductory Quantum Mechanics II	3
PHY 4190	Dissemination of Research Results in Physics	1
PHY 4340	Statistical and Thermal Physics	3
PHY 4360	Computer Models in Physics	3
PHY 4001	Exit Exam	0
Subtotal		**36**
Required Courses in Other Fields		
CSI 1430	Introduction to Computer Science I with Laboratory	4
CSI 1440	Introduction to Computer Science II with Laboratory	4
CSI 2334	Introduction to Computer Systems	3
CSI 2350	Discrete Structures	3
CSI 3324	Numerical Methods	3
MTH 1321	Calculus I	3
MTH 1322	Calculus II	3
MTH 2311	Linear Algebra	3
MTH 2321	Calculus III	3
MTH 3325	Ordinary Differential Equations	3
MTH 3326	Partial Differential Equations	3
Nine semester hours of additional PHY or CSI courses at the 3000-4000 level [1,2]		9
Total Hours		**80**

[1] Excluding STA 2381 Introductory Statistical Methods

[2] Courses selected must apply to a major in these fields.