

PLAN OF STUDY
Physics Major, B.S. (non-teaching) 4 year Program (A)

37 semester hours of physics, including PHYS 125, 126, 220, 225, 250, 305, 320, 331, 325, 350, 425, 450, 460, 470 and 471. In addition, CHEM 161/162 and CHEM 260/201; MATH 122, 221, and 222 are required. Completion of a minor or concentration is required, and for students planning graduate work a year of French, German, or Russian should be taken.

FALL SEMESTER			SPRING SEMESTER			
Course No.	Title	SH		Course No.	Title	SH
			FIRST YEAR			
MATH 152	Calculus I	4		PHYS 125	University Physics I	4
WRT 105/105P/ 110	Writing	3		MATH 221	Calculus II	4
CHEM 161/162	Gen. Chemistry I	4		ENG literature		3
G.E. Elective or FYE		3		CHEM 260/201	Foundations of Inorganic Chemistry	4
		14				15
			SECOND YEAR			
PHYS 126	University Physics II	4		PHYS 320	Thermodynamics	3
MATH 222	Calculus III	4		PHYS 220	Mechanics	3
G.E. Elective		3		PHYS 331	Electronics	3
G.E. Elective		3		Elective		3
P.E Activity		2		G.E. Elective		3
		16				15
			THIRD YEAR			
PHYS 250	Intermediate Lab I	1		PHYS 425	Modern Physics	3
PHYS 305	Electricity & Magnetism	3		PHYS 350	Intermediate Lab II	1
PHYS 325	Optics	4		Elective		3
Elective		3		G.E. Elective		3
G.E. Elective		3		G.E. Elective		3
G.E Elective		3				
		17				13
			FOURTH YEAR			
PHYS 470	Quantum Mechanics I	3		PHYS 471	Quantum Mechanics II	3
PHYS 450	Advanced Lab	1		PHYS 460	Seminar	1
Elective		3		Elective		3
Elective		3		Elective		3
Elective		3		Elective		3
GE Elective		3				
		16				13

REQUIREMENTS FOR MINOR OR CONCENTRATION (minimum of 18 credits)

Notes:

1. Chemistry series may be taken in the 2nd year and Electives or G.E. Electives taken in Freshman year
2. Students who enter with 15 or more credits do not have to take FYE
3. PE may be 3 SH credits, Electives in 3rd and 4th years allow students to be involved in research/projects