

[Bachelor of Elective Studies - Physics, 56credits]

Suggested Plan of Study

[Physics, Astronomy, & Engineering Science. Kevin L. Haglin, Chair]

[B. Dalton, J. Harlander, S. Kalia]

First Semester		Second Semester	
PHYS 234 Math 221 General Education	(5 cr.) (5 cr.) (5 or 6 cr.)	PHYS 235 MATH 222 General Education	(5 cr.) (4 cr.) (3 or 4 cr.)
Third Semester		Fourth Semester	
PHYS 328 Major Electives General Education	(3 cr.) (3 cr.) (5 to 7 cr.)	PHYS 329 CHEM 210 Major and/or University Electives General Education	(3 cr.) (3 cr.) (6 cr.) (3 cr.)
Fifth Semester		Sixth Semester	
PHYS 430 MATH 312 See your advisor	(2 cr.) (3 cr.)	See your advisor	
Seventh Semester		Eighth Semester	
See your advisor		See your advisor	

Notes:

The Bachelor of Elective Studies major requires close coordination with a physics department advisor. It is impossible to list exact courses beyond the fourth semester. The major requires the completion of PHYS 234, 235, 328, 329, 430; MATH 221, 222, 312; CHEM 210, one additional 3 credit course at the 300 level or higher in PHYS, ASTR, or ENGR; 18 additional credits selected under the supervision of a physics major advisor from courses at the 200 level or above in the College of Science and Engineering.

Special Note on Upper division Courses. Most upper division ASTR, ENGR, and PHYS courses are offered every other year. It is important that students check with the department to determine which year and semester a specific course will be offered. The table below provides a general indication as to when upper division courses are offered, but these may change during any given semester.

Course	Semester Offered	Years Offered
ASTR 311 Solar System Astronomy	F	05, 07, 09, 11
ASTR 312 Stellar Astronomy	S	06, 08, 10, 12
ASTR 323 Observational Astronomy	F	06, 08, 10, 12
ASTR 427 Galactic Astronomy and Cosmology	S	05, 07, 09, 11
ENGR 332 Electronics	F	06, 08, 10, 12
ENGR 334 Thermodynamics	S	06, 08, 10, 12
ENGR 425 Optical Communication	S	Every year
ENGR 447 Optical Design	F	06, 08, 10, 12
PHYS 328 Modern Physics I	F, S	Every semester
PHYS 329 Modern Physics II	S	Every year
PHYS 333 Optics	F	Every Year
PHYS 338 Electromagnetic Fields	S	06, 08, 10, 12
PHYS 346 Applications in Theoretical Physics	F, S	Every semester
PHYS 415 Undergraduate Research	Arranged	
PHYS 420 Seminar	DEMAND	
PHYS 430 Advanced Physics Laboratory	F	Every year
PHYS 431 Introduction to Quantum Mechanics	F	05, 07, 09, 11
PHYS 435 Laser Optics	S	05, 07, 09, 11

PHYS 436 Advanced and Fourier Optics	S	06, 08, 10, 12
PHYS 440 Classical Mechanics	S	05, 07, 09, 11
PHYS 445 Electro-optics	F	05, 07, 09, 11