

BACHELOR OF SCIENCE IN PHYSICS
RECOMMENDED COURSE SEQUENCE - EFFECTIVE SPRING 2009

Year	Fall Semester	Spring Semester	Summer	Credits
Freshman	PHYS 1100 Fun of Physics PHYS 2303 Contemporary Physics MATH 2417 Calculus 1 CHEM 1311 General Chemistry 1 CHEM 1111 Chemistry Laboratory 1 RHET 1302 Rhetoric RHET 1101 Oral Comm./Critical Thinking*	PHYS 2325 Mechanics* PHYS 2125 Mechanics Laboratory MATH 2419 Calculus 2 CHEM 1312 General Chemistry 2 CHEM 1112 Chemistry Lab 2 HUMA 1301 Exploration of the Humanities		Fall - 16 Spring - 15 Total Hrs - 31
Sophomore	PHYS 2326 Electromagnetism and Waves PHYS 2126 Electromagnetism Laboratory MATH 2451 Multivariable Calculus MATH 2418 Linear Algebra HIST 1301 Themes in American History	PHYS 3352 Modern Physics 1 PHYS 3311 Theoretical Physics MATH 2420 Ordinary Differential Equations. GOVT 2301 Government 1 Social Science Elective 3 credit hours		Fall - 15 Spring - 16 Total Hrs - 62
Junior	PHYS 3330 Numerical Methods and Computational Techniques PHYS 3416 Electricity and Magnetism PHYS 3312 Classical Mechanics AP 1301 Exploration of the Arts GOVT 2302 Government 2	PHYS 4301 Quantum Mechanics 1* PHYS 4328 Optics PHYS 4311 Thermodynamics/Statistical Mechanics HIST 1302 Issues in American History PHYS 4373 Physical Measurements Laboratory** or Elective	PHYS 4373 Physical Measurements Laboratory**	Fall - 16 Spring - 15 Summer - 3 or 0 Total Hrs - 96 or 93
Senior	PHYS 4352 Modern Physics 2 NATS 4310 Advanced Writing (or Thesis)* PHYS Elective - 3 credit hours Electives - 3 credit hours Advanced elective (Non-physics) - 3 credit hours	PHYS 3325 Electronics PHYS 3125 Electronics Laboratory PHYS Elective - 3 credit hours Electives -3 or 6 credit hours** Advanced elective (Non-physics) - 3 credit hours		Fall - 15 Spring - 13 or 16 Total Hrs - 124

Notes:

*PHYS 2421 Honors Physics I is a recommended elective substitution for PHYS 2325.

*PHYS 2422 Honors Physics II is a recommended elective substitution for PHYS 2326.

*PHYS 2127/2327 may be substituted for PHYS 2126/2326 for a student who has transferred to Physics from an engineering major.

*PHYS 4390 or PHYS 4399 may be substituted for NATS 4310 to satisfy the advanced writing requirement.

*MATH 2418 has become a prerequisite for PHYS 4301, since the printing of the 2008-2010 catalog. Consequently, one fewer elective is required than listed in that catalog. This will be corrected in a future catalog supplement.

51 Hours of upper division courses (course numbers beginning with 3 or greater) is required for all degrees.

**Research Experiences for Undergraduates (REUs) during the summer are highly recommended for Physics majors planning to continue their education in graduate school. Formal REU programs exist at many universities, national laboratories, and even overseas, and typically offer a stipend typical of a graduate teaching assistantship. Announcements for REU programs usually appear online in December and application deadlines usually range from late January to early March. Requirements vary, but students are eligible for some REU programs at the end of their freshman year. If you wish to do an REU during the summer following your junior year, please plan to complete PHYS 4373 Physical Measurements Laboratory during the Spring semester of your junior or senior years.