

**BACHELOR OF SCIENCE IN PHYSICS
RECOMMENDED COURSE SEQUENCE - Fall 2016 Update**

Year	Fall Semester	Spring Semester	Sum mer	Credits
Freshman	PHYS 1100 Fun of Physics PHYS 2303 Contemporary Physics MATH 2413 or 2417 Calculus 1 [#] CHEM 1311 General Chemistry 1 CHEM 1111 Chemistry Laboratory 1 COMM 1311 Survey of Oral and Technology-based Communication UNIV 1010 Freshman and NATS 1101 1 st year NSM Seminars	PHYS 2325 Mechanics or PHYS 2421 Honors Physics I* PHYS 2125 Mechanics Laboratory MATH 2414 or 2419 Calculus 2 [#] CHEM 1312 General Chemistry 2 CHEM 1112 Chemistry Lab 2 RHET 1302 Rhetoric		Fall 16 Spring 15 - 16 Total Hrs 31 - 32
Sophomore	PHYS 2326 EM and Waves or PHYS 2422 Honors Physics II* PHYS 2126 Electromagnetism Laboratory MATH 2415 or 2451 Multivariable Calculus MATH 2418 Linear Algebra HIST Any course in American History	PHYS 3411 Theoretical Physics MATH 2420 Ordinary Differential Equations. PHYS 4311 Thermodynamics/Statistical Mechanics PHYS 3427 Electronics with Laboratory		Fall 15 - 16 Spring 15 Total Hrs 61 - 63
Junior	PHYS 4301 Quantum Mechanics 1 PHYS 3416 Electricity and Magnetism PHYS 3330 Numerical Methods and Computational Techniques GOVT 2305 Government 1 HIST Any courses in American History	PHYS 4302 Quantum Mechanics 2 PHYS 3312 Classical Mechanics PHYS 4373 Physical Measurements Lab Social and Behavioral Sciences Any 3 credit hours Elective – 3 credit hours	REU	Fall 16 Spring 15 Total Hrs 92- 94
Senior	PHYS 4352 Concepts of Modern Physics PHYS Elective - 3 credit hours GOVT 2306 Government 2 Elective - 2 credit hour Upper Lever elective (Non-physics) - 3 credit hours	PHYS 4328 Optics PHYS Elective - 3 credit hours ARTS 1301 Exploration of the Arts HUMA 1301 Exploration of the Humanities Upper Level elective (Non-physics) - 3 credit hours		Fall 14 Spring 15 Total Hrs 121 - 123

Notes:

[#] Either math sequence MATH 2413, 2414, 2415 or MATH 2417, 2419, 2451 is required.

[#] MATH 2413 or MATH 2417 is a prerequisite for PHYS 2325 and MATH 2414 or MATH 2419 is a corequisite for PHYS 2325.

[#] MATH 2414 or MATH 2419 is a prerequisite for PHYS 2326.

***PHYS 2421 Honors Physics I** is a recommended substitution for PHYS 2325. (Requires a minimum grade of B+ in either MATH 2413 or MATH 2417)

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

51 Hours of upper division courses (course numbers beginning with 3 or greater) are 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 usually 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 often eligible if they have completed their freshman year.