

BACHELOR OF ARTS IN PHYSICS
RECOMMENDED COURSE SEQUENCE - EFFECTIVE Fall 2016-Update

Year	Fall Semester	Spring Semester	Credits
Freshman	PHYS 1100 Fun of Physics PHYS 2303 Contemporary Physics MATH 2413 Calculus I [#] 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 1st year NSM Seminar	PHYS 2325 Mechanics or PHYS 2421 Honors Physics I [*] PHYS 2125 Mechanics Laboratory MATH 2414 Calculus II [#] 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 Calculus of Several Variables MATH 2418 Linear Algebra HIST Any course in American History	PHYS 3411 Theoretical Physics MATH 2420 Ordinary Differential Equations. PHYS 3427 Electronics with Laboratory GOVT 2305 Government 1	Fall - 15 - 16 Spring - 15 Total Hrs - 61 - 63
Junior	PHYS 3416 Electricity and Magnetism PHYS 3330 Numerical Methods and Computational Techniques Physics Elective 3 credit hours Science Elective 3 credit hour Social and Behavioral Science Elective Any 3 credit hours	PHYS 4311 Thermodynamics/Statistical Mechanics PHYS 3312 Classical Mechanics PHYS 4373 Physical Measurements Laboratory** Science Electives - 3 credit hours GOVT 2306 Government 2	Fall - 16 Spring - 15 Total Hrs - 92- 94
Senior	Science Electives - 3 credit hours Free Elective - 2 credit hour PHYS 4398 Research Project for the B. A. degree ARTS 1301 Exploration of the Arts Upper Level Elective (Non-physics) - 3 credit hours	Science Elective - 3 credit hours HIST Any course in American History HUMA 1301 Exploration of the Humanities Free Elective -3 credit hours 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 may be electively substituted for PHYS 2325. (Requires a minimum grade of B+ in either MATH 2413 or MATH 2417)

^{*}PHYS 2422 Honors Physics II may be electively substituted 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, whether in physics or another discipline. 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.