

Emphasis - Biophysics

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B.S. in Physics Description

The B.S. degree in physics is recommended for students wishing to go to graduate school in physics. There are optional emphases in astrophysics and biophysics. The degree prepares a student for teaching physics, for graduate or professional schools, such as law school or education school, and for jobs in technical fields. Students interested in teaching high school physics may need a secondary education certification along with the degree.

Minimum Total Credit Hours: 120 General Education Requirements

See the 'General Education/Core Curriculum' for the School of Liberal Arts.

Course Requirements

A B.S. major in physics must have a working knowledge of mathematics, including differential equations. B.S. physics majors must take Math 261, 262, 263, 264, 319, and 353. All six required math courses should be completed by the end of the junior year. At least 45 hours of physics and astronomy courses are required for the B.S. degree, including Phys 211, 212, 221, 222, 303, 308, 309, 310, 317, 319, 401, 402, 451; at least 2 hours of Phys 463 and/or 464; and Phys 417 as an additional upper-division physics laboratory-based course in addition to Phys 319. Students may satisfy the Phys 211-212 requirements by demonstrating a high level of proficiency on an exam, but then will need to complete the 45 hours of physics and astronomy by taking additional higher-level Phys and Astr courses. Up to 6 hours of astronomy courses at the 300 level or higher can count toward the degree.

Emphasis - Biophysics Course Requirements

A B.S. major in physics must have a working knowledge of mathematics, including differential equations. B.S. physics majors must take Math 261, 262, 263, 264, 319, and 353. All six required math courses should be completed by the end of the junior year. At least 48 hours of physics and astronomy courses are required for the B.S. degree with emphasis in biophysics, including Phys 211, 212, 221, 222, 303, 308, 309, 310, 317, 319, 401, 402, 451, 413, 514; at least 2 hours of Phys 463 and/or 464; and Phys 417 as an additional upper-division physics laboratory-based course in addition to Phys 319. Students may satisfy the Phys 211-212 requirements by demonstrating a high level of proficiency on an exam, but then will need to complete the 48 hours of physics and astronomy by taking additional higher-level Phys and Astr courses. Up to 6 hours of astronomy courses at the 300 level or higher can count toward the degree.

Degree Requirements

The academic regulations for this degree program, as entered in the University of Mississippi Catalog, are in effect for the current or selected academic year and semester. The University of Mississippi reserves the right to 1) change or withdraw courses; 2) change rules for registration, instruction, and graduation; and 3) change other regulations affecting the student body at any time.

B.S. in Physics General Education

REQUIREMENT	HOURS	DESCRIPTION
First Year Writing I	3	Complete Hon 101 , Writ 100 or Writ 101 with a passing grade.
First Year Writing II	3	Complete one of the following courses with a passing grade: Liba 102 , Writ 102 or Hon 102 .
3 hrs fine arts	3	The course may be chosen from art history, music, dance, and theatre arts. Studio and workshop courses cannot be used to satisfy this requirement. Courses that satisfy this requirement are any Art History (AH); Liba 130 , 204 , 314 ; Mus 101 , 102 , 103 , 104 , 105 ; Danc 200 ; Thea 201 , 202 . Students who have completed 30 semester hours of undergraduate course work may fulfill the requirement with a 300- or 400-level art history course.
6 hrs literature survey	6	Complete 6 hours of literature survey with a passing grade. Choose from the following courses: Eng 220 , 221 , 222 , 223 , 224 , 225 , or Eng 226 .
6 hrs modern/ancient language 200+	6	Successfully complete at least 6 hours at the 200 level or above in one modern or ancient language.
6 hrs social science	6	Successfully complete 6 semester hours in anthropology, economics, political science, psychology, or sociology.
6 hrs social science/humanities	6	Complete 6 hrs social science/humanities with a passing grade. The courses may be chosen from African American studies, American Sign Language, anthropology, classical civilization, economics, Envs 101 , gender studies, Greek, history, Latin, Liba 202 , 312 , linguistics, any of the languages offered by the Department of Modern Languages, philosophy, political science, psychology, religious studies, sociology, and Southern studies; any 3 credit spch, Rhet 201 or Writ at the 200 level or higher.
6 hrs science	6	Successfully complete 2 courses of laboratory science.
2 science labs	8	Successfully complete at least two science laboratory courses.

General Education II



REQUIREMENT	HOURS	DESCRIPTION
Related subjects residence	6	Students must complete at least 6 of the required 18 hours of related subject course work in residence.
Related subjects residence GPA		Student must achieve a GPA of 2.00 in resident hours in related subjects.
Related subjects	18	Complete at least 18 credit hours in mathematics (Math) course work.
Related subject GPA		Student must achieve a GPA of 2.00 overall in the related subjects.

Major Requirements

REQUIREMENT	HOURS	DESCRIPTION
Phys 211	3	Complete Phys 211 with a passing grade.
Phys 212	3	Complete Phys 212 with a passing grade.
Phys 221	1	Complete Phys 221 with a passing grade.
Phys 222	1	Complete Phys 222 with a passing grade.
Phys 303	3	Complete Phys 303 with a passing grade.
Phys 308	3	Complete Phys 308 with a passing grade.
Phys 309	3	Complete Phys 309 with a passing grade.
Phys 310	3	Complete Phys 310 with a passing grade.
Phys 317	3	Complete Phys 317 with a passing grade.
Phys 319	4	Complete Phys 319 with a passing grade.
Phys 401	3	Complete Phys 401 with a passing grade.
Phys 402	3	Complete Phys 402 with a passing grade.
Phys 417	4	Complete Phys 417 with a passing grade.
Phys 451	3	Complete Phys 451 with a passing grade.
2 hrs Phys 463 and/or 464	2	Complete at least 2 hours of Phys 463 and/or 464.
Add'l Phys or Astr 300+	3	Successfully complete an additional 3 hrs of Phys or Astr at the 300+ level.
Phys residency hrs	18	Students must earn at least 18 hours of their major courses in residence.
Resident Major GPA		Please contact your academic advisor for grade point requirements.
Overall Major GPA		Please contact your academic advisor for grade point requirements.

Major Requirements II

REQUIREMENT	HOURS	DESCRIPTION
Math 261	3	Complete Math 261 with a passing grade.
Math 262	3	Complete Math 262 with a passing grade.
Math 263	3	Complete Math 263 with a passing grade.
Math 264	3	Complete Math 264 with a passing grade.
Math 319	3	Complete Math 319 with a passing grade.
Math 353	3	Complete Math 353 with a passing grade.

Emphasis - Biophysics

REQUIREMENT	HOURS	DESCRIPTION
Phys 413	3	Complete Phys 413 with a passing grade.
Phys 514	3	Complete Phys 514 with a passing grade.

