

## Emphasis - Physics

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## **B.A.Ed. in Science Education** **Description**

The B.A.E. degree with a major in science education can be completed with an emphasis in biology, chemistry, or physics. The degree prepares graduates to be eligible for certification in Mississippi to teach one of these science subjects in grades 7-12. Graduates may also teach other subjects by gaining supplemental endorsements. (See an advisor for more information.)

### **Minimum Total Credit Hours: 122** **Goals/Mission Statement**

Each program is built around eight themes that embody the idea that teachers are facilitators. The following themes are T thinking and problem solving E equality and respect for diversity A appropriate teaching strategies C communication and cooperation H human development curriculum E esteem, autonomy, and lifelong learning R relevance: social and global S supervision, management, and guidance

### **General Education Requirements**

The core/general education requirements for the B.A.E. degree are as follows: 6 hours of English composition (Engl 101, Engl 102 or Liba 102); 6 hours of American or English literature; Math 121 or higher; a 3-4 hour biological science course with laboratory; a 3-4 hour physics, astronomy, or physical science II course with laboratory; a 3-4 hour course in geology, chemistry, or physical science I; one additional 3- hour course in mathematics or science; a 3-hour course in fine arts (appreciation or history of); one additional 3-hour course in fine arts; 6 hours of history; 3 hours of humanities (from among classics, modern languages, philosophy, religion, literature, history, Southern studies, gender studies, linguistics, or African-American studies); Psy 201.

### **Course Requirements**

The requirements for the B.A.E. in science education are the professional education courses (33 hours), shown below, plus the content courses and related areas courses to satisfy an emphasis in biology, chemistry, or physics.

Professional Education Courses (33 hours) Edci 351, Edsp 308, Edci 352, Edci 353\*, Edse 400\*, Edse 446\*, Edle 486\*, and Edci 419\* (\*Admission to Phase II of the Teacher Education Program is required before taking these courses.)

Content area, related area, and elective courses to satisfy one of the three emphases (54 hours).

### **Other Academic Requirements**

Admission to Phase II: Professional Education Core

Students who wish to enter a teacher education degree program must submit a formal application for admission to Phase II to the Office of the Dean of the School of Education. Requirements for admission to teacher education are as follows:

1. Completion of 45 semester hours. Students are responsible for submitting grades to the Office of the Dean for courses taken at other institutions.
2. A grade-point average of 2.50 or above on the 45 semester hours described above. Applicants who apply for admission to Phase II in the fall of 2008 and thereafter must have a 2.75 grade-point average. Those who meet the test requirement (see below) and have at least a 2.50 but less than the 2.75 on the core may appeal to the Admissions Committee by submitting a portfolio that should include an essay and examples of successful experiences working with children. An on-site writing test is required in the appeal process.
3. Appropriate scores on the Praxis I: Pre-Professional Skills Tests (PPST) or SAT or ACT scores (see below):

- PPST scores required: Reading-170; Writing-172; Math-169. - Students who provide proof of an SAT composite score of at least 860 or an ACT score of at least 21 with no subtest score below 18 may be admitted to the teacher education program without PPST scores. ACT or SAT scores must be from tests taken prior to admission to a college or university.

4. A formal application for admission to Phase II must be filed in the Office of the Dean by the deadline date announced.
5. Approval by the Teacher Education Committee. Criteria for acceptance include requirements 1-4.

Admission to Phase III: Student Teaching

Applications are available on the advising link of the School of Education's Web site [http://www.olemiss.edu/depts/educ\\_school2](http://www.olemiss.edu/depts/educ_school2). Fall student teaching (music only) applications are due the spring semester prior to fall student teaching.

To be admitted to student teaching, a student must meet the following requirements:

1. Admission to Phase II: Professional Education Core.
2. A minimum grade of C in professional education courses. If this minimum of C is not met, the course(s) must be retaken before enrolling in the next level of professional education courses.
3. Completion of all but two courses in the teaching field (not including electives) with a minimum grade of C. Candidates missing more than the maximum of two courses with the minimum grade of C can submit a letter of appeal to the director of field experiences. A committee will convene to consider the appeal.
4. Completion of 15 hours in residency at The University of Mississippi (includes Tupelo and DeSoto campus centers).
5. Completion of courses taken by correspondence for admission to student teaching.
6. Evidence of professional liability insurance.

## **Emphasis - Physics** **Description**

Graduates in science education with an emphasis in physics are eligible for certification in Mississippi to teach in grades 7-12. Graduates may also teach



other subjects by gaining supplemental endorsements. (See an advisor for more information.)

## Course Requirements

The B.A.E. in science education with an emphasis in physics requires the professional education courses (33 hours) plus the following content area, related areas, and electives.

Content Area Courses (33 hours) Phys 211/221; 212/222; 303; 317; 319; 321; 413; 417; and 463

Related Areas (15 to 30 hours, depending upon the courses used to satisfy the math/science components of the general education/core) Bisc 160/161 (4 hours) Chem 105/115 (4 hours) Chem 106/116 (4 hours) Astr/Geol (6 hours) Math 123, 261, 262, and 263 (0-12 hours)

## 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.A.Ed. in Science Education

### General Education

REQUIREMENT	HOURS	DESCRIPTION
First Year Writing I	3	Complete <a href="#">Hon 101</a> , <a href="#">Writ 100</a> or <a href="#">Writ 101</a> with a passing grade.
First Year Writing II	3	Complete one of the following courses with a passing grade: <a href="#">Liba 102</a> , <a href="#">Writ 102</a> or <a href="#">Hon 102</a> .
6 hrs history	6	Complete 6 hours of History coursework with a passing grade.
3 hrs math 121+	3	Complete a mathematics course ( <a href="#">Math 121</a> or higher) with a passing grade. Does not include <a href="#">Math 245</a> or <a href="#">Math 246</a> .
Physical science	3	Successfully complete 3-4 hour course with laboratory in physics, astronomy, or physical science II.
Physical sci lab	1	Complete a physical science lab to accompany physical science course.
Biological science	3	Successfully complete a biological science course with an accompanying lab.
Biological sci lab	1	Complete a biological science lab to accompany biological science course.
3-4 hrs science	3	Complete a 3-4 hours course in geology, chemistry, or physical science I.
6 hrs literature 200+	6	Complete 6 credit hours of literature at the 200 level or higher.
3 hrs fine arts, apprec or hist	3	Successfully complete 3 hours in the fine or performing arts. The course may be chosen from art history, music, dance, and theatre arts. Studio and workshop courses cannot be used to satisfy this requirement.

### General Education II

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">Psy 201</a>	3	Complete <a href="#">Psy 201</a> with a passing grade.
Add'l math/science	3	Successfully complete an additional 3-hour course in mathematics or science.
3 hrs humanities	3	Successfully complete 3 semester hours in courses chosen from the following areas: classics, modern languages, philosophy, religion, literature, history, southern studies, gender studies, linguistics, or African American studies.

### Major Requirements

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">Edsp 308</a> - C min	3	Complete <a href="#">Edsp 308</a> with a grade of C or better.
<a href="#">Edci 351</a> - C min	2	Complete <a href="#">Edci 351</a> with a grade of C or better.
<a href="#">Edci 352</a> - C min	2	Complete <a href="#">Edci 352</a> with a grade of C or better.
<a href="#">Edci 353</a> - C min	3	Complete <a href="#">Edci 353</a> with a grade of C or better.
<a href="#">Edse 400</a> - C min	3	Complete <a href="#">Edse 400</a> with a grade of C or better.
<a href="#">Edse 446</a> - C min	3	Complete <a href="#">Edse 446</a> with a grade of C or better.
<a href="#">Edle 486</a> - C min	9	Complete <a href="#">Edle 486</a> with a grade of C or better.
<a href="#">Edci 419</a> - C min	3	Complete <a href="#">Edci 419</a> with a grade of C or better.
Select an emphasis		Select an emphasis area within the BAE in Science Education program.

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REQUIREMENT	HOURS	DESCRIPTION
<a href="#">Bisc 160</a> - C min	3	Complete <a href="#">Bisc 160</a> with a grade of C or better.



REQUIREMENT	HOURS	DESCRIPTION
<a href="#">Bisc 161</a> - C min	1	Complete <a href="#">Bisc 161</a> with a grade of C or better.
<a href="#">Chem 105</a> - C min	3	Complete <a href="#">Chem 105</a> with a grade of C or better.
<a href="#">Chem 106</a> - C min	3	Complete <a href="#">Chem 106</a> with a grade of C or better.
<a href="#">Chem 115</a> - C min	1	Complete <a href="#">Chem 115</a> with a grade of C or better.
<a href="#">Chem 116</a> - C min	1	Complete <a href="#">Chem 116</a> with a grade of C or better.
<a href="#">Math 123</a> - C min	3	Complete <a href="#">Math 123</a> with a grade of C or better.
<a href="#">Math 261</a> - C min	3	Complete <a href="#">Math 261</a> with a grade of C or better.
<a href="#">Math 262</a> - C min	3	Complete <a href="#">Math 262</a> with a grade of C or better.
<a href="#">Math 263</a> - C min	3	Complete <a href="#">Math 263</a> with a grade of C or better.
<a href="#">Phys 211</a> - C min	3	Complete <a href="#">Phys 211</a> with a grade of C or better.
<a href="#">Phys 212</a> - C min	3	Complete <a href="#">Phys 212</a> with a grade of C or better.
<a href="#">Phys 221</a> - C min	1	Complete <a href="#">Phys 221</a> with a grade of C or better.
<a href="#">Phys 222</a> - C min	1	Complete <a href="#">Phys 222</a> with a grade of C or better.
<a href="#">Phys 303</a> - C min	3	Complete <a href="#">Phys 303</a> with a grade of C or better.
<a href="#">Phys 317</a> - C min	3	Complete <a href="#">Phys 317</a> with a grade of C or better.
<a href="#">Phys 318</a> - C min	3	Complete <a href="#">Phys 318</a> with a grade of C or better.
<a href="#">Phys 319</a> - C min	4	Complete <a href="#">Phys 319</a> with a grade of C or better.
<a href="#">Phys 321</a> - C min	4	Complete <a href="#">Phys 321</a> with a grade of C or better.
<a href="#">Phys 413</a> - C min	3	Complete <a href="#">Phys 413</a> with a grade of C or better.
<a href="#">Phys 417</a> - C min	4	Complete <a href="#">Phys 417</a> with a grade of C or better.
<a href="#">Phys 463</a> - C min	1	Complete <a href="#">Phys 463</a> with a grade of C or better.
6 hrs astronomy/geology - C min	6	Complete 6 hours of Astr or Geol coursework with a grade of C or better.

