B.A.ED. IN SCIENCE EDUCATION (BAED)

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

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.

General Education

Code	Title	Hours
Select one of the following First Year Writing I courses:		3
HONR 1010	Freshman Honors I	
WRIT 1000	Introduction to College Writing	
WRIT 1010	First-Year Writing I	
Select one of the following First Year Writing II courses:		3
LIBA 1020	First Year Seminar	
WRIT 1020	First-Year Writing II	
HONR 1020	Freshman Honors II	
Select six hours of history courses		6
Select three hours of MATH 1210+ [1]		3
Select three-four hour course with laboratory in physics, astronomy, or physical science II		3
Select a physical science lab to accompany physical science course		1
Select a biological science course with an accompanying lab		3
Select a biological science lab to accompany biological science course		1
Select a three-four hours course in geology, chemistry, or physical science I		3-4
Select six hours of literature 2000+		6
Select three hours in the fine or performing 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.		
Total Hours		**35-36**

[1] Does not include MATH 2451 Mathematics for Elementary Teachers I or MATH 2452 Mathematics for Elementary Teachers II.

General Education II

Code	Title	Hours
PSYC 2001	Introduction to Psychology	3
Select an additional three-hour course in mathematics or science		3
Select three 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		3
Total Hours		**9**

Major Requirements

Code	Title	Hours
EDSP 3080	Introduction to Special Education	3
EDCI 3520	Education, Society, & the K-12 Learner	2-3
EDSP 3270	Classroom Mgt & Behavioral Interventions	3
EDCI 3530	Planning & Teaching Strategies for Effec	3
EDSE 4000	Principles of Education	3
EDSE 4460	Special Methods I: Science	3
EDLE 4800	Student Teaching: Secondary Education	9
EDCI 4190	Classroom Assessment	3
Total Hours		**29-30**

Select an emphasis

- Select an emphasis area within the BAE in Science Education program.

Emphasis - Biology

Description

Graduates in science education with an emphasis in biology 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.)

Degree Requirements

Code	Title	Hours
ASTR 1110	Descriptive Astronomy	3
or GEOL 1010	Physical Geology	
BISC 1600	Biological Sciences I	3
BISC 1610	Biological Sciences I Laboratory	1
BISC 1620	Biological Sciences II	3
BISC 1630	Biological Sciences II Laboratory	1
BISC 3220	General Ecology	4
Select one of the following:		3
BISC 3300	Principles of Physiology	
BISC 5016	Plant Physiology	
BISC 4380	Microbial Physiology	
BISC 3310	Comparative Anatomy of the Vertebrates	4
BISC 3330	General Microbiology	4
BISC 3360	Genetics	4
BISC 4400	Cell and Molecular Biology	4
BISC 4980	Major Field Achievement Test	0
CHEM 1050	General Chemistry I	3
CHEM 1060	General Chemistry II	3

CHEM 1051	General Chemistry Laboratory I	1
CHEM 1061	General Chemistry Laboratory II	1
Select one of the following:		3
MATH 1230	Trigonometry	
MATH 1250	Basic Mathematics for Science & Eng	
MATH 2611	Unified Calculus & Analytic Geometry I	
PHYS 2130	General Physics I	3
PHYS 2131	Laboratory Physics I	1
Total Hours		**49**

Emphasis - Chemistry

Description

Graduates in science education with an emphasis in chemistry 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.)

Degree Requirements

Code	Title	Hours
BISC 1600	Biological Sciences I	3
BISC 1610	Biological Sciences I Laboratory	1
CHEM 1050	General Chemistry I	3
CHEM 1060	General Chemistry II	3
CHEM 1051	General Chemistry Laboratory I	1
CHEM 1061	General Chemistry Laboratory II	1
CHEM 2210	Elementary Organic Chemistry I	3
CHEM 2220	Elementary Organic Chemistry II	3
CHEM 2211	Elementary Organic Chem. Laboratory I	1
CHEM 2221	Elementary Organic Chem. Laboratory II	1
CHEM 3140	Quantitative Analysis	4
CHEM 3310	Physical Chemistry I	3
or CHEM 3340	Biophysical Chemistry	
CHEM 3515	Individual Research	1-3
CHEM 3820	Chemistry for Teachers II	4
CHEM 3810	Chemistry for Teachers I	4
PHYS 2141	Laboratory Physics II	1
PHYS 2140	General Physics II	3
PHYS 2131	Laboratory Physics I	1
PHYS 2130	General Physics I	3
MATH 2611	Unified Calculus & Analytic Geometry I	3
Select six hours of Astr or Geol coursework		6
Total Hours		**53-55**

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.)

Degree Requirements

Code	Title	Hours
BISC 1600	Biological Sciences I	3
BISC 1610	Biological Sciences I Laboratory	1
CHEM 1050	General Chemistry I	3
CHEM 1060	General Chemistry II	3
CHEM 1061	General Chemistry Laboratory II	1
CHEM 1051	General Chemistry Laboratory I	1
MATH 1230	Trigonometry	3
MATH 2611	Unified Calculus & Analytic Geometry I	3
MATH 2612	Unified Calculus & Analytic Geometry II	3
MATH 2613	Unified Calculus & Analytic Geometry III	3
PHYS 2110	Physics for Science & Engineering I	3
PHYS 2120	Physics for Science & Engineering II	3
PHYS 2111	Lab Physics for Science & Engineering I	1
PHYS 2121	Lab Physics for Science & Engineering II	1
PHYS 3030	Physical Theory and Techniques	3
PHYS 3310	Introduction to Modern Physics I	3
PHYS 3320	Introduction to Modern Physics II	3
PHYS 3252	Electronics	4
PHYS 3232	Optics	4
PHYS 4410	Introduction to Biophysics	3
PHYS 4312	Modern Physics Laboratory	4
PHYS 4137	Senior Research Project	1-3
Select six hours of Astr or Geol coursework		6
Total Hours		**63-65**

Other Academic Requirements

Admission to Phase II: Professional Education Core

Requirements for admission to teacher education are as follows:

1. Completion of core curriculum.
2. Applicants who apply for admission to Phase II must have a 2.75 grade-point average.
3. Passing scores on Praxis Core Academic Skills for Educators (CORE)[1]
4. Courses EDCI 3520 Education, Society, & the K-12 Learner and EDSP 3080 Introduction to Special Education are the only professional education courses that may be taken prior to admission to Phase II. A minimum grade of "C" in all professional education courses is required.

[1] Exemption: Students who provide proof of an ACT score of at least a 21 overall composite (or SAT equivalent) OR have a cumulative GPA of 3.0 or higher on a minimum of 60 completed coursework hours are exempt from taking the Praxis CORE.

Note: A minimum grade of "C" is expected in all professional education courses, content courses, and related 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.

Admission to Phase III: Student Teaching

Applications are available through the Student Advising and Field Experience Office and are due the semester prior to student teaching. To be admitted to student teaching, a student must meet the following requirements:

1. Admission to the Teacher Education Program.
2. A minimum grade of "C" in all professional education courses, content courses and related courses with the exception of those required during student teaching. 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. During the student teaching semester, students must register for student teaching and EDCI 4190 Classroom Assessment. In addition, one 3-hour elective may be taken.
4. Completion of 15 hours in residency at The University of Mississippi (includes Tupelo, Booneville, Grenada, and DeSoto campuses).
5. Correspondence courses in education are not accepted.
6. Evidence of professional liability insurance.