

# Department of Teacher Education and Leadership

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**Interim Department Head: Dr. Kenneth Anthony**

The Department of Teacher Education and Leadership at Mississippi State University is a collaborative community of scholars and educators. We are committed to the belief that education is the primary vehicle for equity and justice in the state of Mississippi and beyond. In keeping with the land grant and research-extensive mission of Mississippi State University, and in support of the mission of the College of Education, the Department of Teacher Education and Leadership is committed to academic excellence, intellectual rigor, and lifelong learning. It is our mission to contribute to teaching and learning P-12 and beyond through teaching and learning, research and inquiry, and service and outreach. Faculty and staff in the department of Teacher Education and Leadership believe that accomplished educators possess in-depth knowledge of content and teaching practices, including discipline-specific practices, that allow them to create engaging, relevant experiences for all students. The goal of the department is to meet the needs of all students through the preparation of effective, responsive scholars and practitioners who use theory, research, and a wide variety of tools, including technology, to enhance their work in a global, diverse, and changing society. The measure of our success is improved outcomes for diverse students, P-12 and beyond.

Undergraduate degree programs in the department of Teacher Education and Leadership prepare teacher candidates for positions as teachers in classrooms from pre-K through twelfth grade. These programs include coursework and experiences that focus on subject matter knowledge, foundations of education, instruction and assessment, practice and reflection, and field experiences in diverse classrooms. Persons interested in degrees offered by the department are advised to obtain a copy of advising worksheets, available at our website, [www.cise.msstate.edu](http://www.cise.msstate.edu).

## Elementary Education Major (ELED)

All elementary education majors receive certification to teach at the elementary preK-3 or K-6 grade levels with the selection of endorsement in either early childhood or middle school content areas. The first two years of the degree program focus on developing subject matter knowledge in mathematics, English language arts, science, and social sciences. The junior year includes two mini-blocks of courses: one that emphasizes teaching at the early childhood levels (pre-K–3rd grade), and one that emphasizes teaching at the middle school levels (4th-8th grades). The senior year includes the senior methods block – four co-requisite courses with extensive field experiences that prepare graduates for the teaching of subject matter. The Elementary Education curriculum culminates in the teaching internship, a semester-long field experience in public schools. All coursework must be completed with a "C" or higher. Students must choose either a middle school concentration or an early childhood concentration. The middle school concentration leads to K-6 general certification with 4th-8th grade subject area certification. The early childhood concentration leads to pre-K-3 general certification with N-1 (nursery-1st grade) early childhood certification. Some students may wish to enroll in additional coursework to obtain licensure in elementary, special education, reading, or other areas. See an advisor for more information.

The B.S. in Elementary Education with either a concentration in Early Childhood or Middle School requires a "C" or higher in all coursework.

## Secondary Education Major (SEED)

The purpose of the Secondary Education major is to prepare students to teach the academic subjects in grades 7-12 by providing professional courses and experiences for those desiring to teach at the middle and high school levels. The Secondary Education program is designed to lead teacher candidates to 7-12 licensure in English, Mathematics, Biology, Chemistry, Physics, or Social Studies. Degree programs include pedagogy courses that require field experiences in middle and high schools, as well as opportunities to master content area pedagogy. The secondary education degree culminates in a semester-long student teaching internship in a middle or high school classroom.

## Special Education Major (EXED)

The program in Special Education is designed to prepare teachers to teach children and youth with learning disabilities, intellectual disabilities, and other areas of exceptionality. The curriculum in special education is designed to meet the requirements for the endorsements in the areas of specialization. The degree program includes extensive field experiences working in schools and classrooms. Courses in the degree program provide students with methods for teaching early childhood, elementary, and secondary students with special needs. The degree program culminates in a semester-long teaching internship in a K-12 setting.

## Master of Arts in Teaching (MAT-S and MAT-X)

Individuals who have already earned a bachelor's degree in another discipline and are eligible for graduate studies can obtain initial teaching licensure and the Master's degree by completing the Master of Arts in Teaching program. The MAT-Secondary degree prepares teachers of content areas for secondary classrooms in a variety of content areas. The MAT-Special Education prepares teachers for self-contained and inclusion K-12 classrooms. Both MAT programs are offered online and include courses in pedagogy, assessment, classroom management, and internship courses completed after the student is hired as a classroom teacher.

## Graduate Programs in Teacher Education and Leadership

The department offers Master's and Educational Specialist degree programs in Elementary, Secondary, and Special Education. These programs provide coursework and field experiences for classroom teachers and other educators wishing to improve their practice. The department also offers the PhD in Curriculum and Instruction with concentrations in elementary education, secondary education, and special education.

### Elementary Education Major (ELED)

Major Advisors: Dr. Stephanie Lemley

#### General Education Requirements

##### English Composition

EN 1103	English Composition I	3
or EN 1104	Expanded English Composition I	
EN 1113	English Composition II	3
or EN 1173	Accelerated Composition II	

##### Creative Discovery

See General Education courses 3

##### Humanities

Choose one of the following: 3

HI 1063	Early U.S. History	
HI 1163	World History Before 1500	
HI 1213	Early Western World	

Choose one of the following: 3

HI 1073	Modern U.S. History	
HI 1173	World History Since 1500	
HI 1223	Modern Western World	

##### Social Sciences

GR 1123	Introduction to World Geography	3
PS 1113	American Government	3
or SO 1003	Introduction to Sociology	
or SO 1203	Sociology of Families	

##### Quantitative Reasoning

MA 1413	Structure of the Real Number System	3
MA 1423	Problem Solving with Real Numbers	3
MA 1433	Informal Geometry and Measurement	3

##### Science

See General Education courses (must be lab-based courses) 6-8

### Major Core

#### Additional Core

MA 1313	College Algebra	3
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Natural Science courses (see General Education courses) 4-6

\*Students must have at least 2 lab-based sciences and need 12 hours total of science.

English Literature Elective (see General Education courses) 3

EN 2503	Teaching Grammar (or English Literature Elective - see General Education courses)	3
EDE 2443	Creative Arts for Elementary and Middle Levels	3

#### Major Core

EDE 2523	Introduction to Elementary Education	3
RDG 3113	Early Literacy Instruction I <sup>1</sup>	3
RDG 3123	Early Literacy Instruction II <sup>1</sup>	3
EDE 3123	Early Childhood Education <sup>1</sup>	3
EDX 3213	Foundations of Special Education	3
RDG 3413	Middle Level Literacy <sup>1</sup>	3

RDG 3223	Diagnosing and Assessing Reading Difficulties in Children	3
EDE 3523	Foundations of Elementary & Middle Level Mathematics Education <sup>1</sup>	3
EDE 4113	Teaching Elementary and Middle Level Science <sup>1</sup>	3
EDE 4123	Teaching Elementary and Middle Level Mathematics <sup>1</sup>	3
RDG 4133	Integrating Literacy Instruction in the Content Areas <sup>1</sup>	3
EDE 4143	Teaching Elementary and Middle Level Social Studies <sup>1</sup>	3
EDE 4153	Assessment & Evaluation in Elementary Education	3
EDE 4883	Managing the Elementary and Middle Level Classroom <sup>1</sup>	3
EDE 4886	Elementary and Middle Level Teaching Internship <sup>1</sup>	6
EDE 4896	Elementary and Middle Level Teaching Internship	6

### Choose a concentration:

#### Early Childhood Concentration (ECHD)

Leads to K-3 general certification with N-1 (nursery - 1<sup>st</sup> grade) early childhood certification.

HDFS 2803	Prenatal and Infant Development	0,3
HDFS 2813	Child Development	0,3
HDFS 3803	Creativity & Play in Young Children	0,3
EDX 4113	Pre-K Intervention Methods <sup>1</sup>	3
EDX 4413	Families and Professional Partnerships	3
or HDFS 4803	Parenting	
<b>Total Hours</b>		<b>123</b>

Students choosing the Early Childhood Education concentration may obtain K-6 certification by taking, in addition to the K-3 requirements, EDE 3223 and 3 hours of additional expanded core courses in two content areas: 3 hours of any English, 3 hours of any natural science, 3 hours of any HI, PSY, SO, AN, EC, or PS course, and/or MA 2113.

#### Middle School Concentration (MDSC)

Leads to K-6 general certification with 4<sup>th</sup>-8<sup>th</sup> grade subject area certification.

EDE 3223	Middle Level Education <sup>1</sup>	3
TECH 4763	Digital Tools for 21st Century Teaching and Learning	3
EPY 4103	Behavior Analysis for Behavior Technicians	3
3 hours of additional expanded core courses in two content areas: 3 hours of any English, 3 hours of any natural science, 3 hours of any HI, PSY, SO, AN, EC, or PS course, and/or MA 2113.		6
<b>Total Hours</b>		<b>123</b>

Many courses have co-requisites. See catalog or advisor.

<sup>1</sup> Requires admission to Teacher Education.

## Secondary Education Major (SEED)

### General Education Requirements

#### English Composition

EN 1103	English Composition I	3
or EN 1104	Expanded English Composition I	
EN 1113	English Composition II	3
or EN 1173	Accelerated Composition II	

#### Creative Discovery

CO 1503	Introduction to the Theatre (ENED Concentration)	3
All other Concentrations choose from General Education courses		

#### Humanities (vary by concentration)

Required by ENED & MAED Concentrations	6
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HI 1063	Early U.S. History	
HI 1073	Modern U.S. History	
All Other Concentrations		
Choose from General Education courses		
<b>Social Sciences (vary by concentration)</b>		<b>6</b>
Required by ENED Concentration		
PSY 1013	General Psychology	
Choose from General Education courses		
Required by MAED & SSED Concentrations		
PSY 1013	General Psychology	
SO 1003	Introduction to Sociology	
All Other Concentrations		
Choose from General Education courses		
<b>Quantitative Reasoning (varies by concentration)</b>		<b>3</b>
Required by BIED Concentration		
ST 3123	Introduction to Statistical Inference	
Required by ENED Concentration		
MA 1213	Math in Your World ( or higher)	
Required by SSED Concentration		
Any Gen Ed Math higher than 1313		
Required by MAED, CHED, PHED Concentrations		
MA 1713	Calculus I	
<b>Natural Sciences (vary by concentration)</b>		<b>7-8</b>
Required by ENED, MAED, & SSED Concentrations		
Biological Science with lab (see General Education courses)		
Physical Science with lab (see General Education courses)		
Required by BIED Concentration		
BIO 1134	Biology I	
BIO 1144	Biology II	
Required by CHED Concentration		
CH 1213	Chemistry I	
CH 1211	Investigations in Chemistry I	
CH 1223	Chemistry II	
CH 1221	Investigations in Chemistry II	
Required by PHED Concentration		
CH 1213	Chemistry I	
CH 1211	Investigations in Chemistry I	
PH 2223	Physics II	
<b>Total Hours</b>		<b>31-32</b>

## Major Core

### Major Core

EDF 3333	Social Foundations of Education	3
EDX 3213	Foundations of Special Education	3
RDG 3513	Developing Reading Strategies in the Secondary School Content Areas <sup>1</sup>	3
EPY 3143	Human Development and Learning Strategies in Education	3
EDS 3413	Principles of Secondary Education	3
EDS 4403	Evaluation of Learning in Secondary Schools <sup>1</sup>	3
EDS 4873	Seminar in Managing the Secondary Classroom <sup>1</sup>	3
EDS 4886	Teaching Internship in Secondary Education <sup>1</sup>	6
EDS 4896	Teaching Internship in Secondary Education <sup>1</sup>	6

## Content Methods Courses in Concentration

**Total Hours****33****Choose one of the following concentrations:****English Education Concentration (ENED)**

Major Advisor: Missy Hopper; Office: 310 Allen Hall

The curriculum in English Language Arts is offered to prepare students to teach English Language Arts in high schools and middle schools and has been designed based on the Standards of the National Council of Teachers of English. A minimum of 42 hours in English beyond freshman composition is required.

TECH 4763	Digital Tools for 21st Century Teaching and Learning	3
EN 2213	English Literature Before 1800	3
EN 2223	English Literature After 1800	3
EN 2243	American Literature Before 1865	3
EN 2253	American Literature After 1865	3
EN 2273	World Literature Before 1600	3
or EN 2283	World Literature After 1600	
EN 2434	Literature and Film	3-4
or EN 3523	Shakespeare and Film	
EN 3414	Critical Writing and Research in Literary Studies	4
EN 3423	Descriptive English Grammar	3
EN 4503	Shakespeare	3
or EN 4513	Shakespeare	
EN 4413	History of the English Language	3
or EN 4403	Introduction to Linguistics	
or EN 4633	Language and Society	
EN 4323	Literary Criticism from Plato-Present	3
or EN 4353	Critical Theory Since 1900	
EN Electives - 3000/4000 level		12
<b>Content Methods Courses</b>		
EDE 3343	Teaching Adolescent Literature	3
EDS 3673	Secondary Language Arts Education	3
EDS 4673	Methods of Teaching Language Arts	3
<b>Total ENED Concentration Hours</b>		
<b>Total Hours</b>		<b>58-59</b>

<sup>1</sup> Requires admission to Teacher Education.

**Mathematics Education Concentration (MAED)**

Major Advisor: Dr. Liza Bondurant

This curriculum is offered for the education of prospective teachers of mathematics in grades 7-12. The degree program has been designed based on standards developed by the National Council of Teachers of Mathematics. A minimum of 36 semester hours of mathematics is required.

**Additional Core**

MA 1723	Calculus II	3
Choose from the following:		
CH 1213 & CH 1211	Chemistry I and Investigations in Chemistry I	3-4
CH 1223 & CH 1221	Chemistry II and Investigations in Chemistry II	
PH 2213	Physics I	
PH 2223	Physics II	

PS 1113	American Government	3
EN Literature Electives (see General Education)		6
<b>Oral Communication Requirement</b>		
CO 1003	Fundamentals of Public Speaking	3
<b>Computer Literacy Requirement</b>		
Choose one of the following:		3
CSE 1233	Computer Programming with C	
CSE 1273	Computer Programming with Java	
MA 2733	Calculus III	3
MA 2743	Calculus IV	3
MA 3053	Foundations of Mathematics	3
MA/ST 3123	Introduction to Statistical Inference	3
MA 3113	Introduction to Linear Algebra	3
MA 3163	Introduction to Modern Algebra	3
MA 3253	Differential Equations I	3
MA 3463	Foundations of Geometry	3
MA 3513	History of Mathematics	3
MA 4523	Introduction to Probability	3
Content Methods Courses		6
EDS 3633	Secondary Mathematics Education <sup>1</sup>	
EDS 4633	Methods of Teaching Mathematics <sup>1</sup>	
<b>Total MAED Concentration Hours</b>		
<b>Total Hours</b>		<b>57-58</b>

<sup>1</sup> Requires admission to Teacher Education.

## Biology Education Concentration (BIED)

Major Advisor: Dr. Lacey Fitts

The Biology Education Curriculum is designed in accordance with the recommendations of the National Science Teachers Association and the National Science Education Standards for prospective teachers at the secondary level (grades 7-12).

MA 1313	College Algebra	3
<b>Concentration Courses</b>		
Choose 57 hours of approved coursework within concentration area. Must include the required subject area core. <sup>2</sup>		57
<b>Required Subject area core (32 hrs)</b>		
BIO 2103	Cell Biology	
BIO 3103	Genetics I	
BIO 3104	Ecology	
BIO 3304	General Microbiology	
BIO 4113	Evolution	
BCH 4013	Principles of Biochemistry	
CH 1213	Chemistry I	
CH 1211	Investigations in Chemistry I	
<b>Science and/or Math Electives approved by advisor that result in a double major or an additional are of licensure (25 hrs)</b>		
Content Methods Courses		
EDS 3653	Secondary Science Education <sup>1</sup>	
EDS 4653	Methods of Teaching Science <sup>1</sup>	
<b>Total BIED Concentration Hours</b>		
<b>Total Hours</b>		<b>60</b>

<sup>1</sup> Requires Admission to Teacher Education.

<sup>2</sup> At least 21 hours of BIO courses must be 3000-4000 level.

## Chemistry Education Concentration (CHED)

Major Advisor: Dr. Lacey Fitts

The Chemistry Education Curriculum is designed in accordance with the recommendations of the National Science Teachers Association and the Next Generation Science Standards for prospective teachers at the secondary level (grades 7-12).

ST 3123	Introduction to Statistical Inference	3
<b>Concentration Courses</b>		
Choose 57 hours of approved coursework within concentration area. Must include the required subject area core.		57
<b>Required subject area core (26 hours)</b>		
CH 3213	Inorganic Chemistry	
or CH 4213	Advanced Inorganic Chemistry I	
CH 3313	Analytical Chemistry I	
CH 3311	Analytical Chemistry I Laboratory	
CH 4511	Organic Chemistry Laboratory I	
CH 4513	Organic Chemistry I	
CH 4523	Organic Chemistry II	
CH 4521	Organic Chemistry Laboratory II	
BCH 4013	Principles of Biochemistry	
<b>Science and/or Math Electives approved by advisor that result in a double major or an additional area of licensure (28 hours)</b>		
Content Methods Courses		
EDS 3653	Secondary Science Education <sup>1</sup>	
EDS 4653	Methods of Teaching Science <sup>1</sup>	
<b>Total CHED Concentration Hours</b>		
<b>Total Hours</b>		<b>60</b>

<sup>1</sup> Requires admission to teacher education.

## Physics Education Concentration (PHED)

Major Advisor: Dr. Lacey Fitts

The Physics Education Curriculum is designed in accordance with the recommendations of the National Science Teachers Association and the National Science Education Standards for prospective teachers at the secondary level (grades 7-12).

ST 3123	Introduction to Statistical Inference	3
<b>Concentration Courses</b>		
Choose 50 hours of approved coursework within concentration area. Must include the required subject area core <sup>*</sup>		50
<b>Required Subject area core (21 hours) <sup>*</sup></b>		
PH 1063	Descriptive Astronomy	
PH 2213	Physics I	
PH 2233	Physics III	
PH 4213	Intermediate Mechanics I	
PH 4143	Intermediate Laboratory	
MA 1723	Calculus II	
MA 2733	Calculus III	
or MA 3113	Introduction to Linear Algebra	
<b>Science and/or Math Electives approved by advisor that result in a double major or an additional area of licensure (29 hours)</b>		
<b>Content Methods Courses</b>		
EDS 3653	Secondary Science Education <sup>1</sup>	
EDS 4653	Methods of Teaching Science <sup>1</sup>	
		<b>6</b>

**Total PHED Concentration Hours****Total Hours****59**

\* Required subject area core includes CH 1213/1211 and PH 2223 listed in General Education.

<sup>1</sup> Requires admission to teacher education.**Social Studies Education Concentration (SSED)**

Major Advisor: Paul Binford; Office: 310 Allen Hall

The Social Studies Education curriculum is designed based on standards developed by the National Council for the Social Studies. With a minimum of 54 hours required in history and the social sciences, the program of study provides a broad-based preparation for prospective social studies teachers of grades 7-12.

MA 1313	College Algebra	3
<b>Math/Science Elective</b>		
Approved Science (no lab) or Math		3
<b>Content Area with Courses Required</b>		
EC 2113	Principles of Macroeconomics	3
EC 2123	Principles of Microeconomics	3
GR 1113 & GR 1111	Physical Geography and Physical Geography Laboratory	3
GR 1123	Introduction to World Geography	3
HI 1063	Early U.S. History	3
HI 1073	Modern U.S. History	3
HI 1163	World History Before 1500	3
HI 1173	World History Since 1500	3
HI 3333	Mississippi History	3
HI 4403 or HI 4903	The Ancient Near East The Far East	3
PS 1113	American Government	3
PS 1513 or PS 1313 or PS 2703	Comparative Government Introduction to International Relations Introduction to Public Policy	3
3000 or 4000 level history elective		3
3000 or 4000 level HI/PS/EC/GR elective		3
3000 or 4000 level HI/PS/EC/GR elective		3
3000 or 4000 level HI/PS/EC/GR/PSY/SO elective		3
<b>Oral Communication Requirement</b>		
CO 1003	Fundamentals of Public Speaking	3
<b>Computer Literacy Requirement</b>		
BIS 1012 or TECH 1273	Introduction to Business Information Systems Computer Applications	2-3
Content Methods Courses		
EDS 3643	Secondary Social Studies Education <sup>1</sup>	
EDS 4643	Methods of Teaching Social Studies <sup>1</sup>	

**Total SSED Concentration Hours****Total Hours****59-60**<sup>1</sup> Admission to Teacher Education required**Special Education Major (EXED)**

Major Advisors: Dr. Kellie Fondren

## General Education Requirements

### English Composition

EN 1103	English Composition I	3
or EN 1104	Expanded English Composition I	
EN 1113	English Composition II	3
or EN 1173	Accelerated Composition II	

### Creative Discovery

Any core fine arts		3
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### Humanities

Any core humanities		6
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### Social & Behavioral Sciences

Any core social science		6
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### Quantitative Reasoning

Math above MA 1313		3
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### Natural Sciences

Natural Science w/lab (see General Education courses)		3-4
Natural Science w/lab (see General Education courses)		3-4
Math or Science elective		3

## Major Core

MA 1313	College Algebra	3
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### Professional Core

EPY 2513	Human Growth and Development	3
EDX 3203	Evidence Based Practices for Inclusive Classrooms	3
EDX 3213	Foundations of Special Education	3
EDX 3223	Positive Behavior Intervention and Supports	3
EDX 3233	Intensive and Individualized Behavior Intervention and Support	3
EDX 3253	Evaluating Learning in Special Education	3
EDX 4103	Systematic Instruction	3
EDX 4113	Pre-K Intervention Methods <sup>1</sup>	3
EDX 4123	Methods and Materials for Elementary Students with Disabilities <sup>1</sup>	3
EDX 4133	Methods and Materials for Secondary Students with Disabilities <sup>1</sup>	3
EDX 4243	Designing Instruction for All Learners	3
EDX 4353	Instructional and Assistive Technology	3
EDX 4413	Families and Professional Partnerships	3
EDX 4873	Professional Seminar in Special Education	3
EDX 4886	Teaching Internship in Special Education <sup>1</sup>	6
EDX 4896	Teaching Internship in Special Education <sup>1</sup>	6
RDG 3113	Early Literacy Instruction I <sup>1</sup>	3
RDG 3123	Early Literacy Instruction II <sup>1</sup>	3
TECH 4763	Digital Tools for 21st Century Teaching and Learning	3
Collateral Core Electives		21-24
Literacy Electives <sup>1</sup>		6

### Oral Communication Requirement

EDX 4353	Instructional and Assistive Technology	3
EDX 4413	Families and Professional Partnerships	3
EDX 4133	Methods and Materials for Secondary Students with Disabilities	3

### Computer Literacy Requirement

EDX 4353	Instructional and Assistive Technology	3
EDX 4413	Families and Professional Partnerships	3
EDX 4133	Methods and Materials for Secondary Students with Disabilities	3

### Writing Requirement

EDX 4353	Instructional and Assistive Technology	3
EDX 4413	Families and Professional Partnerships	3
EDX 4133	Methods and Materials for Secondary Students with Disabilities	3
<b>Total Hours</b>		<b>123</b>

Footnotes

- 1
- Requires admission to Teacher Education.
- 2
- A math course higher than MA 1313 must be completed.