# Department of Curriculum, Instruction, and Special Education 

Department Head: Dr. Janice Nicholson
Office: 310 Allen Hall
The Department of Curriculum, Instruction, and Special Education 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 Curriculum, Instruction, and Special Education 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 Curriculum, Instruction, and Special Education 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 Curriculum, Instruction and Special Education 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.

## Elementary Education Major (ELED)

All elementary education majors receive certification to teach at the elementary 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 pre-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/special education 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.

## 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 CISE

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: Kenneth Anthony
Office: 310 Allen Hall

## General Education Requirements

## English Composition



| EDF 3333 | Social Foundations of Education |  |
| :--- | :--- | :--- |
| EDF 3423 | Exploring Diversity Through Writing ${ }^{1}$ | 3 |
| EDE 3443 | Creative Arts for Elementary and Middle Levels ${ }^{1}$ | 3 |
| EDE 3523 | Foundations of Elementary \& Middle Level Mathematics Education ${ }^{1}$ | 3 |
| EPY 4103 | Behavior Analysis for Behavior Technicians | 3 |
| EDE 4113 | Teaching Elementary and Middle Level Science ${ }^{1}$ | 3 |
| EDE 4123 | Teaching Elementary and Middle Level Mathematics ${ }^{1}$ | 3 |
| RDG 4133 | Integrating Literacy Instruction in the Content Areas ${ }^{1}$ | 3 |
| EDE 4143 | Teaching Elementary and Middle Level Social Studies ${ }^{1}$ | 3 |
| EDE 4883 | Managing the Elementary and Middle Level Classroom ${ }^{1}$ | 3 |
| EDE 4886 | Elementary and Middle Level Teaching Internship ${ }^{1}$ | 3 |
| EDE 4896 | Elementary and Middle Level Teaching Internship ${ }^{1}$ | 3 |

## Early Childhood Concentration (ECHD)

Leads to K-3 general certification with $\mathrm{N}-1$ (nursery - $1^{\text {st }}$ grade) early childhood/special education certification.

| HDFS 2803 | Prenatal and Infant Development | 3 |
| :--- | :--- | :--- |
| HDFS 2813 | Child Development | 3 |
| HDFS 3803 | Creativity \& Play in Young Children | 3 |
| EDX 4113 | Methods and Materials for Early Childhood Students with Disabilities ${ }^{1}$ | 3 |
| EDX 4413 | Working with Families of Students with Disabilities | 3 |
| or HDFS 4803 | Parenting |  |

Students choosing the Early Childhood Education concentration may obtain K-6 certification by taking, in addition to the K-3 requirements, EDE 3223 and any two of the following: 3 hours of English, 3 hours of math, 3 hours of social studies, and/or 3 hours science.

## Middle School Concentration (MDSC)

Leads to K-6 general certification with $4^{\text {th }}-8^{\text {th }}$ grade subject area certification.
EDE 3223 Middle Level Education ${ }^{1}$
Twelve hours certification endorsement area electives.
Two 21-hour endorsement areas required. See Advisor.
Total Hours
Many courses have co-requisites. See catalog or advisor.
1 Requires admission to Teacher Education.

## Secondary Education Major (SEED)

## 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.

## 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 |  |
| Mathematics |  | College Algebra |
| MA 1313 |  | 3 |
| MA higher than Algebra |  | 3 |



1 Requires admission to Teacher Education.

## Mathematics Education Concentration (MAED)

Major Advisor: Lindon Ratliff; Office: 310 Allen Hall
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.

## General Education Requirements

## English Composition

| EN 1103 | English Composition I | 3 |
| :--- | :--- | :--- |
| or EN 1104 | Expanded English Composition I | 3 |
| EN 1113 | English Composition II |  |
| or EN 1173 | Accelerated Composition II |  |
| Mathematics |  | 3 |
| MA 1713 | Calculus I | 3 |

## Science (two with a lab)

Biological Science w/lab (see General Education) ..... 3
Physical Science w/ Lab (Calculus based) ..... 6
Choose from the following:

| CH 1213 | Chemistry I |
| :--- | :--- |
| \& CH 1211 | and Investigations in Chemistry I |
| CH 1223 | Chemistry II |
| \& CH 1221 | and Investigations in Chemistry II |
| PH 2213 | Physics I |
| PH 2223 | Physics II |

## Humanities

HI 1063 Early U.S. History 3
HI 1073 Modern U.S. History ..... 3
Fine Arts
See General Education courses ..... 3
Social/Behavioral Sciences
PSY 1013 General Psychology ..... 3
SO 1003 Introduction to Sociology ..... 3
Additional Core
PS 1113 American Government ..... 3
EN Literature Electives (see General Education) ..... 6
Oral Communication Requirement
CO 1003 Fundamentals of Public Speaking ..... 3
Computer Literacy RequirementChoose one of the following:3
CSE 1233 Computer Programming with C
CSE 1273 Computer Programming with Java
Writing Requirement
Requirement met by taking EDS 3633
Major Core
EDF 3333 Social Foundations of Education ..... 3
EDX 3213 ..... 3
EPY 3143 Human Development and Learning Strategies in Education ..... 3
RDG 3513 Developing Reading Strategies in the Secondary School Content Areas ${ }^{1}$ ..... 3
EDS 3413 Principles of Secondary Education ..... 3

| EDS 3633 | Secondary Mathematics Education ${ }^{1}$ | 3 |
| :---: | :---: | :---: |
| EDS 4403 | Evaluation of Learning in Secondary Schools ${ }^{1}$ | 3 |
| EDS 4633 | Methods of Teaching Mathematics ${ }^{1}$ | 3 |
| EDS 4873 | Seminar in Managing the Secondary Classroom ${ }^{1}$ | 3 |
| EDS 4886 | Teaching Internship in Secondary Education ${ }^{1}$ | 6 |
| EDS 4896 | Teaching Internship in Secondary Education ${ }^{1}$ | 6 |
| Content Area |  |  |
| 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 |
| Total Hours |  | 120-122 |

1 Requires admission to Teacher Education.

## Biology Education Concentration (BIED)

Major Advisor: Ryan Walker; Office: 310 Allen Hall
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).

## General Education Requirements

## English Composition

| EN 1103 | English Composition I | 3 |
| :--- | :--- | :--- |
| or EN 1104 | Expanded English Composition I | 3 |
| EN 1113 | English Composition II | 3 |
| or EN 1173 | Accelerated Composition II |  |
| Mathematics |  | College Algebra |
| MA 1313 |  | 3 |

ST 3123 Introduction to Statistical Inference ..... 3
Science
See Science Content Area ..... 6
Math/Science Elective
See Sciences Content Area ..... 3
Humanities
See General Education courses ..... 6
Fine Arts
See General Education courses ..... 3
Social/Behavioral Sciences
See General Education courses ..... 6
Major Core
EDF 3333 Social Foundations of Education ..... 3
EDX 3213 Individualizing Instruction for Exceptional Children ..... 3
EPY 3143 Human Development and Learning Strategies in Education ..... 3
EDS 3413 Principles of Secondary Education ..... 3
EDS 3653 Secondary Science Education ${ }^{1}$ ..... 3
EDS 4403 Evaluation of Learning in Secondary Schools ${ }^{1}$ ..... 3

| EDS 4653 | Methods of Teaching Science ${ }^{1}$ | 3 |
| :---: | :---: | :---: |
| EDS 4873 | Seminar in Managing the Secondary Classroom ${ }^{1}$ | 3 |
| EDS 4886 | Teaching Internship in Secondary Education ${ }^{1}$ | 6 |
| EDS 4896 | Teaching Internship in Secondary Education ${ }^{1}$ | 6 |
| RDG 3513 | Developing Reading Strategies in the Secondary School Content Areas ${ }^{1}$ | 3 |
| Concentration Courses |  |  |
| Choose 57 hours of approved coursework within concentration area. Must include the required subject area core. ${ }^{2}$ |  |  |
| Required Subject area core ( 32 hrs ) |  |  |
| BIO 1134 | Biology I |  |
| BIO 1144 | Biology II |  |
| 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 |  |
| Science and/or Math Electives approved by advisor that result in a double major or an additional are of licensure (25 hrs) |  |  |
| Oral Communication Requirement |  |  |
| Satisfied by the successful completion of EDS 3413 |  |  |
| Writing Requirement |  |  |
| Satisfied by the successful completion of EDS 3653 |  |  |
| Total Hours 123 |  |  |
| Requires <br> 2 At least 2 | e 3000-4000 level. |  |

## Chemistry Education Concentration (CHED)

Major Advisor: Ryan Walker; Office: 310 Allen Hall
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).

## 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 |  |
| Mathematics |  |  |
| MA 1713 | Calculus I | 3 |
| ST 3123 | Introduction to Statistical Inference | 3 |
| Natural Sciences |  |  |
| See Content Area |  | 9 |
| Extra Science or Math (Gen Ed) |  |  |
| Approved Science or Math |  | 3 |
| Humanities Electives |  |  |
| See General Education courses |  | 6 |
| Fine Arts |  |  |
| See General Education courses |  | 3 |
| Social/Behavioral Sciences |  |  |
| See General Education courses |  | 6 |


| Major Core |  |  |
| :---: | :---: | :---: |
| EDF 3333 | Social Foundations of Education | 3 |
| EDX 3213 | Individualizing Instruction for Exceptional Children | 3 |
| EPY 3143 | Human Development and Learning Strategies in Education | 3 |
| EDS 3413 | Principles of Secondary Education | 3 |
| EDS 3653 | Secondary Science Education ${ }^{1}$ | 3 |
| EDS 4403 | Evaluation of Learning in Secondary Schools ${ }^{1}$ | 3 |
| EDS 4653 | Methods of Teaching Science ${ }^{1}$ | 3 |
| EDS 4873 | Seminar in Managing the Secondary Classroom ${ }^{1}$ | 3 |
| EDS 4886 | Teaching Internship in Secondary Education ${ }^{1}$ | 6 |
| EDS 4896 | Teaching Internship in Secondary Education ${ }^{1}$ | 6 |
| RDG 3513 | Developing Reading Strategies in the Secondary School Content Areas ${ }^{1}$ | 3 |
| Concentration Courses |  |  |
| Choose 57 hours of approved coursework within concentration area. Must include the required subject area core. |  | 57 |
| Required subject area core (26 hours) |  |  |
| CH 1213 | Chemistry I |  |
| CH 1211 | Investigations in Chemistry I |  |
| CH 1223 | Chemistry II |  |
| CH 1221 | Investigations in Chemistry II |  |
| CH 2311 | Analytical Chemistry I Laboratory |  |
| CH 2313 | Analytical Chemistry I |  |
| CH 3213 | Inorganic Chemistry |  |
| or CH 4213 | Advanced Inorganic Chemistry I |  |
| 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 |  |
| Science and/or Math Electives approved by advisor that result in a double major or an additional area of licensure ( 28 hours) |  |  |
| Oral Communication Requirement |  |  |
| Satisfied by the successful completion of EDS 3413 |  |  |
| Writing Requirement |  |  |
| Satisfied by the successful completion of EDS 3653 |  |  |
| Total Hours |  | 123 |
| 1 Requires adm |  |  |

## Physics Education Concentration (PHED)

Major Advisor: Ryan Walker; Office: 310 Allen Hall
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).

## General Education Requirements

## English Composition

| EN 1103 | English Composition I | 3 |
| :--- | :--- | :--- |
| or EN 1104 | Expanded English Composition I |  |
| EN 1113 | English Composition II |  |
| $\quad$ or EN 1173 | Accelerated Composition II |  |
| Mathematics |  | 3 |
| MA 1713 | Calculus I | 3 |
| ST 3123 | Introduction to Statistical Inference | 3 |

## Science

See Content Area ..... 9
Humanities Electives
See General Education courses ..... 6
Fine Arts
See General Education courses ..... 3
Social/Behavioral Sciences
See General Education courses ..... 6
Major Core
EDF 3333 Social Foundations of Education ..... 3
EDX 3213 Individualizing Instruction for Exceptional Children ..... 3
EPY 3143 Human Development and Learning Strategies in Education ..... 3
EDS 3413 Principles of Secondary Education ..... 3
EDS 3653 Secondary Science Education ${ }^{1}$ ..... 3
EDS 4403 Evaluation of Learning in Secondary Schools ${ }^{1}$ ..... 3
EDS 4653 Methods of Teaching Science ${ }^{1}$ ..... 3
EDS 4873 Seminar in Managing the Secondary Classroom ${ }^{1}$ ..... 3
EDS 4886 Teaching Internship in Secondary Education ${ }^{1}$ ..... 6
EDS 4896 Teaching Internship in Secondary Education ${ }^{1}$ ..... 6
RDG 3513 Developing Reading Strategies in the Secondary School Content Areas ${ }^{1}$ ..... 3
Concentration Courses
Choose 57 hours of approved coursework within concentration area. Must include the rquired subject area core ..... 57
Required Subject area core ( 28 hours)
PH 1063 Descriptive Astronomy ..... 3
PH 2213 Physics I ..... 3
PH 2223 Physics II ..... 3
PH 2233 Physics III ..... 3
PH 4213 Intermediate Mechanics I ..... 3
PH 4143 Intermediate Laboratory ..... 3
CH 1213 Chemistry I ..... 3
CH 1211 Investigations in Chemistry I ..... 1
MA 1723 Calculus II ..... 3
MA 2733 Calculus III ..... 3
or MA 3113 Introduction to Linear Algebra
Science and/or Math Electives approved by advisor that result in a double major or an additional area of licensure ( 29 hours)
Oral Communication Requirement
Satisfied by the successful completion of EDS 3413
Writing Requirement
Satisfied by the successful completion of EDS 3653
Total Hours123
1 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.

## General Education Requirements

## English Composition

EN 1103

BIS 1012 Introduction to Business Information Systems ..... 2-3
or TECH 1273 Computer Applications
Writing Requirement
Satisfied by successful completion of EDS 4643 ..... 3
Total Hours ..... 122-124
1 Admission to Teacher Education required
Special Education Major (EXED)
Major Advisors: Kent Coffey
Office: 310 Allen Hall
General Education Requirements
English Composition
EN 1103 English Composition I ..... 3
or EN 1104
EN 1113 Expanded English Composition I
English Composition II ..... 3
or EN 1173 Accelerated Composition II
College Algebra (or higher; C or better) ..... 3
MA 1313 ..... 3
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
Humanities
Any core humanities ..... 6
Fine Arts
Any core fine arts ..... 3
Social \& Behavioral Sciences
Any core social science ..... 6
Professional Core
EPY 2513 Human Growth and Development ..... 3
EDX 3203 Introduction to Learning Disabilities ..... 3
EDX 3213 Individualizing Instruction for Exceptional Children ..... 3
EDX 3223 Introduction to Emotional/Behavioral Disorders ..... 3
EDX 3233 Contingency Management ..... 3
EDX 3253 Evaluating Learning in Special Education ..... 3
EDX 4103 Introduction to Teaching Students with Intellectual and Developmental Disabilities ..... 3
EDX 4113 Methods and Materials for Early Childhood Students with Disabilities ${ }^{1}$ ..... 3
EDX 4123 Methods and Materials for Elementary Students with Disabilities ${ }^{1}$ ..... 3
EDX 4133 Methods and Materials for Secondary Students with Disabilities ${ }^{1}$ ..... 3
EDX 4243
EDX 4353 Assistive Technology in Special Education ..... 3
EDX 4413 Working with Families of Students with Disabilities ..... 3
EDX 4873 Professional Seminar in Special Education ..... 3
EDX 4886 Teaching Internship in Special Education ${ }^{1}$ ..... 6
EDX 4896 Teaching Internship in Special Education ${ }^{1}$ ..... 6
RDG 3113 Early Literacy Instruction I ${ }^{1}$ ..... 3
RDG 3123 Early Literacy Instruction II ${ }^{1}$ ..... 3
TECH 4763 Digital Tools for 21st Century Teaching and Learning ..... 3
Collateral Core Electives ..... 21-24
Literacy Electives ${ }^{1}$ ..... 6

| Oral Communication Requirement |  |  |
| :--- | :--- | ---: |
| EDX 4353 | Assistive Technology in Special Education | 3 |
| EDX 4413 | Working with Families of Students with Disabilities | 3 |
| EDX 4133 | Methods and Materials for Secondary Students with Disabilities | 3 |
| Computer Literacy Requirement |  | 3 |
| EDX 4353 | Assistive Technology in Special Education | 3 |
| EDX 4413 | Working with Families of Students with Disabilities | 3 |
| EDX 4133 | Methods and Materials for Secondary Students with Disabilities | 3 |
| Writing Requirement |  |  |
| EDX 4353 | Assistive Technology in Special Education | 3 |
| EDX 4413 | Working with Families of Students with Disabilities | 3 |
| EDX 4133 | Methods and Materials for Secondary Students with Disabilities | 3 |
| Total Hours |  | $\mathbf{1 2 3}$ |
|  |  |  |
|  |  |  |

