EDUCATION

The mission of the department of education is to provide high quality teachers to school districts in the south central region of Missouri and beyond. The vision of the department is our teachers inspire the next generation of students, particularly those in underrepresented groups, to pursue educational and STEAM career fields by connecting content knowledge to real world application, while creating a safe learning space for students.

Most programs may be completed in four academic years, although you may wish to carry lighter course loads during the regular academic semesters. Admission to the university does not automatically qualify a student to participate in the professional component of the teacher education program. That participation is granted upon demonstration of a high level of academic and professional competence. To be admitted to certification programs, you must maintain a 3.0 GPA in their content area and professional requirements, have an ACT of 22 or a 220 on all sections of the Missouri General Education Assessment or apply for an exemption, apply for a substitute certificate after 60 credit hours, and complete an interview with the department chair. You must also have a cleared background check for any field experiences.

The last semester of your certification program will be student teaching; all other coursework must be successfully completed to be eligible. You must pass the Missouri content exam before applying to student teaching. For other guidelines for student teaching, please refer to the department handbook.

For the most current information on certification requirements, please see the department’s webpage: http://teachereducation.mst.edu/.

All certification programs are approved by the Missouri Department of Elementary and Secondary Education. If you want to teach in another state, you should investigate the reciprocity regulations for educator licensure or certification.

Early Childhood
In Missouri, early childhood certification spans birth through third grade; you will have the opportunity to be placed in the S&T Child Development Center for field experiences. You will earn a bachelor of science in education with an emphasis in early childhood education; select courses in this degree may be used for the national Child Development Associate credential. For a list of required courses, please see the early childhood section of the department webpage.

Educational Studies
The Educational Studies emphasis is for students who want to work in informal educational settings. This emphasis area does not lead to Missouri teacher certification.

Elementary Education
In Missouri, elementary teacher certification spans grades 1-6. You will earn a bachelor of science degree in education with an emphasis in elementary education. Graduates of this program will have the knowledge of science, technology, engineering, art and mathematics (STEAM) to share with 1st through 6th grade students. Project Lead The Way: Launch classroom teacher certification is embedded in the emphasis. For a list of required courses, please see the elementary section of the department webpage.

Middle School Education
In Missouri, middle school certification spans grades 5-9. You will earn a bachelor of science degree with a teaching certificate for one of the following areas:

- English Language Arts
- Mathematics
- Science
- Social Studies

You must take at least 24 credit hours in your content area and the required education courses. For a list of approved courses, please see the department of education website.

Secondary Education
At S&T, you will earn a degree in your content area while pursuing secondary teaching certification. See the degree requirements for those departments in the catalog for more information.

- Biology
- Business
- Chemistry
- English
- Mathematics
- Physics
- Social Science*

*Economics, History, and Psychology degrees are eligible for this certification, if coursework requirements are fulfilled.

World Language Education
Students may earn French or Spanish teaching certification through the Bachelor of Arts in Multidisciplinary Studies. In Missouri, this teaching certificate is grades K-12. For a list of approved courses, please see the department of education website.

General Education Requirements
General education requirements are intended to provide you with the intellectual knowledge and skills for basic education. This body of knowledge and skills is arranged according to two broad categories: systems of symbolic thought and communication represented by linguistic and mathematical studies and systems of intellectual inquiry represented by basic academic disciplines. In addition, you must complete one course or unit in cultural diversity and the general education requirements can be fulfilled at the same time.

The following are generic requirements for all education students. However, any degree requirement not included in these general education requirements must be included in the professional requirements or subject matter requirements for each degree program.

Symbolic Thought and Communications
1. Linguistic Studies (9 semester hours) You are required to take two courses in written communication and one course in oral communication. You must have a grade of "C" or better in each course.
2. **Mathematical Studies** (3 semester hours) The course must be college algebra or above and you must earn a grade of "C" or better.

### Systems of Intellectual Inquiry

1. **Humanities** At least one course each from two of the following areas required: art, music, philosophy, literature and theater.

2. **Natural Science** One course in biological sciences and one in physical science is required. One of these two courses must include a laboratory.

3. **Social and Behavioral Science** One course in each of the following areas is required: (1) American History, (2) American Government, and (3) General Psychology.

### Missouri Department of Elementary and Secondary Education Approved Programs

The following programs are approved by the Missouri Department of Elementary and Secondary Education for initial teacher certification. If you are interested in teaching in another state, you should investigate the reciprocity agreement for educator licensure or certification.

- Elementary Education (grades 1-6)
- Middle School Education:
  - Language Arts (grades 5-9)
  - Mathematics (grades 5-9)
  - Science (grades 5-9)
  - Social Studies (grades 5-9)
- Secondary Education:
  - English (grades 9-12)
  - Mathematics (grades 9-12)
  - Social Science (grades 9-12) (Economics, History, or Psychology degrees eligible)
  - Biology (grades 9-12)
  - Chemistry (grades 9-12)
  - Physics (grades 9-12)
  - Business (grades 9-12)

Note: If changes occur at the state level, then the state's education requirements will supersede those in the catalog and DO NOT fall under the grandfather clause.

### Bachelor of Science in Education Overview

The Department of Education offers a degree in education with options for emphases in early childhood (birth-grade 3), elementary (grades 1-6), middle school language arts, middle school mathematics, middle school science, or middle school social science. The educational studies emphasis area offers an option for students working in informal contexts outside of public schools.

All students take the core education curriculum; these courses include multiple field experience courses which requires them to observe and teach lessons in schools. The final semester of the program is student teaching when students are immersed full time in a school setting for 16 weeks, except for the educational studies emphasis area.

The Missouri Department of Elementary and Secondary Education approves the curricula of certification programs. Any substitutions for content or education coursework must be approved by the Department of Education. Students intended to earn a teaching certificate must also pass the Missouri Content Assessment and meet the GPA requirements to be eligible for student teaching and certification.

### Program Learning Outcomes

The program learning outcomes are the Missouri Teacher Standards. These are the same standards principals use to evaluate practicing teachers in Missouri. These outcomes are assessed throughout the program and in the student teaching experience; students must demonstrate evidence of satisfactory progress on each outcome.

Missouri S&T education program graduates will . . .

1. Create learning experiences that make the central concepts, structures, and tools of inquiry of the discipline(s)of subject matter meaningful and engaging for all students.

2. Provide learning opportunities that are adapted to diverse learners and support the intellectual, social, and personal development of all students.

3. Develop, implement, and evaluate curriculum based upon student, district and state standards

4. Use a variety of instructional strategies and resources to encourage students’ critical thinking, problem solving, and performance skills

5. Create a learning environment that encourages active engagement in learning, positive social interaction, and self-motivation.

6. Model effective verbal, nonverbal, and media communication techniques with students, colleagues and families to foster active inquiry, collaboration, and supportive interaction in the classroom.

7. Monitor the performance of each student through formative and summative assessment strategies, and devises instruction to enable students to grow and develop, making adequate academic progress.

8. Continually assess the effects of choices and actions on others and seek out opportunities to grow professionally.

9. Have effective working relationships with students, parents, school colleagues, and community members

### Core Curriculum

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC 1104</td>
<td>Teacher Field Experience I</td>
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<tr>
<td>EDUC 1164</td>
<td>Teacher Field Experience II</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 1174</td>
<td>School Organization and Administration For Teachers</td>
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<td>EDUC 2102</td>
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<td>EDUC 2310</td>
<td>Education Of The Exceptional Child</td>
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<td>or PSYCH 4310</td>
<td>Psychology Of The Exceptional Child</td>
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<td>EDUC 3216</td>
<td>Instructional Literacy in the Content Area</td>
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<td>EDUC 3340</td>
<td>Assessment of Student Learning</td>
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<td>PSYCH 3310</td>
<td>Developmental Psychology</td>
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<td>EDUC 4298</td>
<td>Student Teaching Seminar</td>
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<tr>
<td>EDUC 4299</td>
<td>Student Teaching</td>
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</table>

**Total Credits: 35**

### Emphasis Area: Educational Studies

This emphasis is for students who want to work in educational settings outside of K-12 public schools. Potential career settings include
nonprofit organizations, state agencies, childcare, museums, youth development, and more. This flexible emphasis area is designed to combine educational theories with applications in informal educational environments and does not result in teacher certification.

Students must complete the general education requirements and the education core curriculum (35 credit hours) with the exception of student teaching, which should be substituted with additional education courses aligned to the student’s career goals. Each student will elect sufficient additional courses to complete a minimum of 120 credit hours; these may be in other disciplines. As this degree does not result in certification, students are not required to meet Missouri Department of Elementary and Secondary Education requirements.

Students must complete the following general education requirements. Substitutions are allowable but must be approved by the department chair.

Students must take the following nine hours of coursework:

**Math and Sciences.** Students must take **18 hours of math and science courses**, including at least one in biological science and one in the physical sciences and at least one math course. In addition to these requirements, students may count STAT 1115 (https://catalog.mst.edu/search/?P=STAT%201115), up to 3 hours from psychology classes, and up to 3 hours from history of science and technology classes (HISTORY 2510 (https://catalog.mst.edu/search/?P=HISTORY%202510), HISTORY 3510 (https://catalog.mst.edu/search/?P=HISTORY%203510), or HISTORY 3530 (https://catalog.mst.edu/search/?P=HISTORY%203530)), but may not use them to satisfy another requirement.

**Humanities.** Students must complete **9 hours in humanities** with at least one course from each of the following: literature, philosophy, and fine arts (Art, Music, or Theater Appreciation).

**Social Sciences.** Students must complete **12 hours in social science courses.** Students must take at least one course in two of these four areas: economics, history, political science, and psychology.

One of the following courses must be taken to satisfy the requirement of the state of Missouri (the “Williams Law”); this course may count toward fulfilling the social sciences requirement.

**Emphasis Area: Early Childhood**

An early childhood certificate allows students to teach children from birth through third grade in the state of Missouri.

**Students must also take a literature course.**

**Emphasis Area: Elementary**

An elementary certificate allows students to teach grades 1-6 in the state of Missouri.
Emphasis Area: Middle School Language Arts

An middle school certificate allows graduates to teach grades 5-9 in the designated subject area.

EDUC 3215 Teaching Reading in Elementary and Early Childhood Settings 3
EDUC 3280 Instructional Strategies in the Content Area 3
EDUC 3335 Curriculum And Instruction Of The Middle School 3
ENGLISH 3170 Teaching And Supervising Reading and Writing 3
ENGLISH 2171 Fiction Writing 3
or ENGLISH 2172 Creative Nonfiction Writing 3
ENGLISH 3302 History And Structure Of The English Language 3
or ENGLISH 3301 A Linguistic Study Of Modern English 3
ENGLISH 1170 Creative Writing 3
EDUC 3298 Teacher Field Experience III 1 3

Total Credits 25

Students must also take four literature electives, of which three must be 2000 or 3000 level. Students in this program are eligible for both a literature minor and a creative writing minor.

Students must take the following general education courses.

ENGLISH 1120 Exposition And Argumentation 3
ENGLISH 1160 Writing And Research 3
SP&M S 1185 Principles Of Speech 3
ART 1180 Art Appreciation 3
or MUSIC 1150 Music Understanding And Appreciation 3
or THEATRE 1190 Theatre via Video 3
ENGLISH 1221 American Literature: 1600 To 1865 3
or ENGLISH 1222 American Literature: 1865 To Present 3
PHILOS 1105 Self and World: Introduction To Philosophy 3
or PHILOS 1115 Logic and Reasoning: An Introduction 3
HISTORY 1100 Early Western Civilization 3
or HISTORY 1200 Modern Western Civilization 3
or HISTORY 1300 American History To 1877 3
or HISTORY 1310 American History Since 1877 3
POL SCI 1200 American Government 3
ECON 1200 Principles Of Macroeconomics 3
or ECON 1100 Principles Of Microeconomics 3
MATH 1103 Fundamentals Of Algebra 3

BIO SCI 1113 General Biology 3
BIO SCI 1219 General Biology Lab 1
GEOLOGY 1110 Physical And Environmental Geology 3
or GEOLOGY 1120 Evolution Of The Earth 3
or PHYSICS 1505 Introductory Astronomy 3
or PHYSICS 1605 Environmental Physics I 3
or CHEM 1310 General Chemistry I 3
IS&T 1551 Implementing Information Systems: User Perspective 3
or COMP SCI 1500 Computational Problem Solving 3

Total Credits 40

Students must also take an additional humanity elective and three free elective hours.

Emphasis Area: Middle School Mathematics

An middle school certificate allows graduates to teach grades 5-9 in the designated subject area.

ENGLISH 3170 Teaching And Supervising Reading and Writing 3
EDUC 3280 Instructional Strategies in the Content Area 3
EDUC 3335 Curriculum And Instruction Of The Middle School 3
EDUC 3298 Teacher Field Experience III 1
EDUC 3203 Introduction to STEM Education 3
EDUC 3222 Geometric Concepts for Elementary Teachers 3
MATH 1103 Fundamentals Of Algebra 3
MATH 1120 College Algebra 5
or MATH 1140 College Algebra 3
MATH 1160 Trigonometry 2
MATH 1208 Calculus With Analytic Geometry I 3
or MATH 1214 Calculus I 5
or MATH 1210 Calculus I-A 3
MATH 1215 Calculus II 4
or MATH 1221 Calculus With Analytic Geometry II 3
or MATH 1211 Calculus I-B 3
or MATH 1212 Survey of Calculus 1
COMP SCI 1500 Computational Problem Solving 3
or IS&T 1551 Implementing Information Systems: User Perspective 3
STAT 1115 Statistics For The Social Sciences I 3
or STAT 3113 Applied Engineering Statistics 3
or STAT 3115 Engineering Statistics 3

Total Credits 41

Students must take the following general education courses.

ENGLISH 1120 Exposition And Argumentation 3
ENGLISH 1160 Writing And Research 3
SP&M S 1185 Principles Of Speech 3
ART 1180 Art Appreciation 3
or MUSIC 1150 Music Understanding And Appreciation 3
or THEATRE 1190 Theatre via Video 3
ENGLISH 1221 American Literature: 1600 To 1865 3
or ENGLISH 1222 American Literature: 1865 To Present 3
PHILOS 1105 Self and World: Introduction To Philosophy 3
or PHILOS 1115 Logic and Reasoning: An Introduction 3
HISTORY 1100 Early Western Civilization 3
or HISTORY 1200 Modern Western Civilization 3
or HISTORY 1300 American History To 1877 3
or HISTORY 1310 American History Since 1877 3
POL SCI 1200 American Government 3
ECON 1200 Principles Of Macroeconomics 3
Students must also take the following general education courses.

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<td>BIO SCI 1219</td>
<td>General Biology Lab</td>
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<td>BIO SCI 1113</td>
<td>General Biology</td>
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<tr>
<td>GEOL 1110</td>
<td>Physical And Environmental Geology</td>
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<td>PHYS 1505</td>
<td>Introductory Astronomy</td>
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<td>PHYSICS 1145</td>
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<td>CHEM 1310</td>
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</table>

**Total Credits:** 37

### Emphasis Area: Middle School Science

An middle school certificate allows graduates to teach grades 5-9 in the designated subject area.

<table>
<thead>
<tr>
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<tr>
<td>ENGLISH 3170</td>
<td>Teaching And Supervising Reading and Writing</td>
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<tr>
<td>EDUC 3280</td>
<td>Instructional Strategies in the Content Area</td>
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<td>EDUC 3335</td>
<td>Curriculum And Instruction Of The Middle School</td>
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</tr>
<tr>
<td>EDUC 3203</td>
<td>Introduction to STEM Education</td>
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<td>EDUC 3220</td>
<td>Teaching Science in the Elementary and Early Childhood Classroom</td>
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<td>Teacher Field Experience III</td>
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<td>BIO SCI 1113</td>
<td>General Biology</td>
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<td>BIO SCI 1219</td>
<td>General Biology Lab</td>
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<td>BIO SCI 1173</td>
<td>Introduction to Environmental Sciences</td>
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<td>GEOLOGY 1110</td>
<td>Physical And Environmental Geology</td>
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<td>GEOLOGY 1120</td>
<td>Evolution Of The Earth</td>
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<td>CHEM 1319</td>
<td>General Chemistry Laboratory</td>
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<tr>
<td>BIO SCI 2223</td>
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**Total Credits:** 43

Students must also take the following general education courses.

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<tr>
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<td>ENGLISH 1160</td>
<td>Writing And Research</td>
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<td>Principles Of Speech</td>
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<td>ART 1180</td>
<td>Art Appreciation</td>
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<td>or MUSIC 1150</td>
<td>Music Understanding And Appreciation</td>
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<tr>
<td>or THEATRE 1190</td>
<td>Theatre via Video</td>
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<tr>
<td>ENGLISH 1221</td>
<td>American Literature: 1600 To 1865</td>
<td>3</td>
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<td>or ENGLISH 1222</td>
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<td>HISTORY 1100</td>
<td>Early Western Civilization</td>
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<td>POL SCI 1200</td>
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<td>ECON 1200</td>
<td>Principles Of Macroeconomics</td>
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<td>STAT 1115</td>
<td>Statistics For The Social Sciences I</td>
<td>3</td>
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<tr>
<td>or STAT 3113</td>
<td>Applied Engineering Statistics</td>
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</table>

**Total Credits:** 50

Students will also take three hours of humanities elective and three hours of free electives.

### Emphasis Area: Middle School Social Science

An middle school certificate allows graduates to teach grades 5-9 in the designated subject area.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>EDUC 3530</td>
<td>Teaching Integrated Social Studies and Humanities</td>
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<td>EDUC 3350</td>
<td>Social Studies In The Elementary School</td>
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<td>PSYCH 4600</td>
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**Total Credits:** 25

Students will also take a DESE-approved American history elective, two DESE-approved world history electives, and one history elective. Students in this program may be eligible for both a history minor and a psychology minor.

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<td>3</td>
</tr>
<tr>
<td>BIO SCI 1219</td>
<td>General Biology Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIO SCI 1173</td>
<td>Introduction to Environmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 1505</td>
<td>Introductory Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>or PHYSICS 1145</td>
<td>College Physics I</td>
<td>3</td>
</tr>
<tr>
<td>GEOLOGY 1110</td>
<td>Physical And Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOLOGY 1120</td>
<td>Evolution Of The Earth</td>
<td>3</td>
</tr>
<tr>
<td>HISTORY 1100</td>
<td>Early Western Civilization</td>
<td>3</td>
</tr>
<tr>
<td>or HISTORY 1200</td>
<td>Modern Western Civilization</td>
<td></td>
</tr>
<tr>
<td>or HISTORY 1300</td>
<td>American History To 1877</td>
<td></td>
</tr>
<tr>
<td>or HISTORY 1310</td>
<td>American History Since 1877</td>
<td></td>
</tr>
<tr>
<td>IS&amp;T 1551</td>
<td>Implementing Information Systems: User Perspective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 40
Students will also take three hours of humanities elective and three hours of free electives.

Teaching and Learning Undergraduate Certificate

This certificate is designed to give students background in important educational concepts such as instructional design, learner engagement, assessment, diversity, and inclusion. This would be helpful for students who intend to work in higher education or nonprofit organizations as well as those who want to conduct industry training. The courses in this certificate may be used to meet some of the requirements for teacher certification programs.

Students must meet regular Missouri S&T undergraduate admission requirements.

Certificate Requirements

A student must have completed the following courses, totaling 13 hours.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 1040</td>
<td>Perspectives In Education</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 1174</td>
<td>School Organization and Administration For Teachers</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 3216</td>
<td>Instructional Literacy in the Content Area</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 3340</td>
<td>Assessment of Student Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 2310</td>
<td>Education Of The Exceptional Child</td>
<td>3</td>
</tr>
</tbody>
</table>

Undergraduate Certificate in Education of Young Children

Courses in this certificate will explore creation of high quality care for young children, from birth to eight years of age. The certificate courses emphasize engagement of diverse families and collaboration with community resources. The courses in this program are aligned with the Core Competencies for Early Childhood and Youth Development programs for Missouri and Kansas and the national Child Development Associate training requirements.

The on campus childcare center at S&T provides real world experiences for students interested in working with this age group. This certificate would add specialized knowledge of early childhood to existing programs such as elementary teacher certification and psychological sciences.

Individuals seeking to manage or work in preschools, daycares, or other educational settings with young children would benefit from this certificate.

Additional courses, including student teaching, are required for the Missouri teaching certificate in early childhood. However, completion of all certificate courses meets the training requirement for Child Development Associate, a nationally recognized credential. Additional assessments and clock hours in a childcare setting are required for obtaining that credential; this certificate represents only the training completion.

The following courses are required, for a total of 18 credit hours:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 1055</td>
<td>Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 1221</td>
<td>Health, Nutrition, and Safety in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 1820</td>
<td>Early Childhood Program Management</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 2440</td>
<td>Observation and Assessment of Young Children</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 2401</td>
<td>School, Family, and Community Partnerships</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 3211</td>
<td>Child Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Julia Alexander, Assistant Teaching Professor  
MEd Drury University

Mary Gillis, Assistant Teaching Professor  
EdD University of Missouri-St. Louis

Beth Kania-Gosche, Professor and Chair  
PHD Saint Louis University

Michelle Schwartz, Assistant Teaching Professor  
EdD Illinois State University

EDUC 1000 Special Problems (IND 0.0-6.0)  
Problems or readings on specific subjects or projects in the department. Consent of instructor required.

EDUC 1001 Special Topics (IND 0.0-6.0)  
This course is designed to give the department an opportunity to test a new course. Variable title.

EDUC 1040 Perspectives In Education (LEC 2.0)  
This course is an introduction course which will assist students planning to enter the teacher-education program in assessing their personal and professional characteristics required for the teaching profession. It is an overview of the teacher education profession for elementary, middle and secondary. Prerequisites: Education emphasis declared.

EDUC 1055 Introduction to Early Childhood Education (LEC 3.0)  
This course will introduce students to the standards for early childhood programs, emphasizing family partnerships and community resources. Students will survey research on play-based learning, emerging literacy, and family engagement and apply research concepts to design developmentally appropriate activities and spaces.

EDUC 1104 Teacher Field Experience I (LAB 1.0)  
Students will spend 30 clock hours in classrooms, including experiences in diverse settings. Students will attend seminar sessions and complete assignments related to the field experiences. A background check is required for enrollment in this course. Prerequisite: Educ 1040.

EDUC 1164 Teacher Field Experience II (LAB 2.0)  
Students will spend 60 clock hours in classrooms, including experiences in diverse settings. Students will teach lessons, work with learners, and otherwise assist in the classroom to which they are assigned. A background check is required for enrollment in this course. Prerequisites: Educ 1040, Educ 1104, and Educ 3216.

EDUC 1174 School Organization and Administration For Teachers (LEC 2.0)  
Students will gain knowledge and understanding of the organizational structure and the general operation and administration of public schools. The student should more clearly understand the role of the classroom teacher in classroom management, school law, equity in education, curriculum/instruction, and professional development. Prerequisites: Educ 1040 and Educ 1104.
EDUC 1221 Health, Nutrition, and Safety in Early Childhood Education (LEC 3.0)
Students will examine research regarding safe and healthy learning environments for young children. Early childhood education regulations, policies, and risk management will be reviewed, and inequities related to health, safety, and nutrition will be critically examined. Students will create learning experiences for young children from course content. Prerequisites: Education emphasis declared.

EDUC 1820 Early Childhood Program Management (LEC 3.0)
This course is an examination of the regulatory requirements of early childhood programs. Students will discuss ethical issues and advocacy strategies. Students will practice administration skills such as budget management for early childhood programs. Personnel management to promote a positive school culture will be discussed. Prerequisites: Educ 1221.

EDUC 2000 Special Problems (IND 0.0-6.0)
Problems or readings on specific subjects or projects in the department. Consent of instructor required.

EDUC 2001 Special Topics (LEC 0.0-6.0)
This course is designed to give the department an opportunity to test a new course. Variable title.

EDUC 2102 Educational Psychology (LEC 3.0)
Principles of psychology relevant to the field of education. Course covers theoretical and applied information on such topics as human growth and development, and cognitive and behavioral views of learning and intelligence. The course also covers motivation, creation of learning environments, measurement and evaluation of learning. Prerequisite: Psych 1101. Must be a psychology major, or in the teacher education program. (Co-listed with Psych 2300).

EDUC 2251 Historical Foundation Of American Education (LEC 3.0)
Development of American educational institutions and ideas, and of social forces that have influenced them. Prerequisites: Educ 1040 and History 1300 or 1310.

EDUC 2310 Education Of The Exceptional Child (LEC 3.0)
Study of the psychology of children with emotional, behavioral, cognitive or other differences. The course presents the fundamentals of providing services as well as understanding children classified as exceptional. Implications of personal, family and classroom issues will be discussed as well as assessment procedures for identification.

EDUC 2401 School, Family, and Community Partnerships (LEC 3.0)
Students will examine available community resources and their impact on children and families. Students will practice strategies to support family engagement. Effective communication and collaboration with diverse families will be emphasized. Prerequisites: Educ 1040 or Educ 1055.

EDUC 2440 Observation and Assessment of Young Children (LAB 1.0 and LEC 2.0)
Students will discuss the purpose, benefits, and uses of informal and formal assessments of children. Students will practice interpreting and communicating assessment results while maintaining confidentiality. Assessment results will be used to plan developmentally appropriate curriculum. Students will administer an observation assessment in the field. Prerequisites: Educ 1040 or Educ 1055.

EDUC 3000 Special Problems (IND 0.0-6.0)
Problems or readings on specific subjects or projects in the department. Consent of instructor required.

EDUC 3001 Special Topics (LEC 0.0-6.0)
This course is designed to give the department an opportunity to test a new course. Variable title.

EDUC 3203 Introduction to STEM Education (LEC 3.0)
Students will discuss and apply research on STEM education at the early childhood and elementary levels. Inquiry-based learning and critical thinking are emphasized. Students are introduced to a variety of instructional programs including Project Lead the Way. Students will observe STEM in an authentic environment and then implement instruction. Prerequisites: Educ 3216.

EDUC 3211 Child Development (LEC 3.0)
This course explores characteristics of children from birth to age eight, including language acquisition, creative expression, and physical, cognitive, and social-emotional development. The impact of trauma on development will also be discussed. The connection of cultural differences to development will also be discussed. Prerequisites: Educ 1040 or Educ 1055 or Psych 1101.

EDUC 3215 Teaching Reading in Elementary and Early Childhood Settings (LEC 3.0)
This course introduces emergent literacy concepts and language acquisition. Students will apply research on phonological and phonemic awareness, fluency, comprehension, vocabulary, and text selection to their future classrooms. After observing the teaching of reading in an authentic setting, students will design and implement instruction. Prerequisite: Educ 1040.

EDUC 3216 Instructional Literacy in the Content Area (LEC 3.0)
Vocabulary, comprehension, the writing process and other literacy skills will be reinforced. Classroom content texts will be evaluated. Students will create meaningful learning experiences and resources for a diverse student population. Differentiated instruction will be introduced, with specific focus on English Language Learners and struggling reader. Prerequisites: Educ 1040.

EDUC 3217 Analysis and Correction of Reading Difficulties (LEC 3.0)
This course reviews procedures for identifying reading problems and supporting learners at the elementary and early childhood levels. Students will be introduced to commercially prepared informal diagnostic instruments, attitude and interest inventories, prescriptive measures, anecdotal records and strategies for corrective reading instruction. Prerequisite: Educ 3215.
EDUC 3218 Language Arts for Elementary and Early Childhood Teachers (LEC 3.0)
Students will apply research in emergent writing at the early childhood level and the writing process at the elementary level. Providing effective feedback to learners on their oral and written communication will be addressed. Students will integrate art, music, drama, and play-based learning into language arts instruction. Prerequisite: Educ 1040.

EDUC 3220 Teaching Science in the Elementary and Early Childhood Classroom (LEC 3.0)
Students will learn to introduce children to scientific inquiry. Students will model higher order thinking skills and effective questioning techniques to guide learners' critical thinking by incorporating the engineering design process. Students will identify uses of technology for teaching science and develop informal and formal science assessments. Prerequisites: Educ 1040.

EDUC 3221 Methods of Teaching Math (LEC 3.0)
The course presents an overview of how children learn mathematics, various techniques in teaching mathematics, and examples of applying these techniques to specific mathematical concepts (such as geometry, measurement, basic operations, statistics and probability, etc.). Prerequisite: Math 1120 or Math 1140; Educ 1040. (Co-listed with Math 3921).

EDUC 3222 Geometric Concepts for Elementary Teachers (LEC 3.0)
The course covers methods of teaching the study of points, lines, polygons, similarity, congruence, constructions, and proof in Euclidean Plane Geometry. Transformational geometry and trigonometry are introduced to elementary teachers. Prerequisites: Math 1120 or Math 1140. (Co-listed with Math 3922).

EDUC 3280 Instructional Strategies in the Content Area (LEC 3.0)
Students will design authentic, technology rich, data-driven instruction and assessment for diverse learners in middle and secondary schools. The student will demonstrate competency in planning and implementing differentiated instruction. Critical thinking and problem solving strategies will be emphasized. Prerequisites: Educ 3216, English 3170, Educ 3340.

EDUC 3290 Coordination of Cooperative Education (LEC 3.0)
Explore the coordination and delivery of work-based learning experiences for student learners, including legal aspects, methods, materials, selecting work sites, placement, evaluation of expectations and student follow-up. Develop an implementation plan for cooperative education. Prerequisites: Educ 1040 and Educ 1104 and Educ 1174.

EDUC 3298 Teacher Field Experience III (LAB 1.0)
Students enrolled in this course will be planning and implementing activities and assessments with children or adolescents in structured learning environments. Students must be supervised by experienced, credentialed educators and request placement through the department. At least 30 hours of contact time is required per credit hour. Prerequisites: EDUC 1104 and 1164.

EDUC 3305 Philosophy And Administration Of The Middle School (LEC 3.0)
This course will acquaint students with aspects of education that are unique to the middle school. Attention will be given to the philosophy underlying the middle school. Finally, leadership theories most appropriate to the middle school will be studied.

EDUC 3311 Psychological & Educational Development Of The Adolescent (LEC 3.0)
A theoretical and empirical examination of the psychological and educational development of the adolescent.

EDUC 3335 Curriculum And Instruction Of The Middle School (LEC 3.0)
This course provides an overview of the structure and philosophy of middle schools, including interdisciplinary and collaborative teams. The unique needs of the early adolescent will be aligned with evidence-based practices. Students will complete a field experience in a middle school. A cleared background check is required for this course. Prerequisite: Educ 1040.

EDUC 3340 Assessment of Student Learning (LEC 3.0)
Students will learn to evaluate assessments for validity and reliability. Students will develop formative and summative assessments aligned with learning outcomes. Writing quality rubrics and universal design will be introduced. Students will analyze data to make instructional decisions and learn to evaluate vendor assessments. Prerequisites: Educ 1040. (Co-listed with Psych 4340).

EDUC 3350 Social Studies In The Elementary School (LEC 3.0)
Problems in preparation, teaching of social studies units with suitable materials, techniques for elementary teachers. Prerequisite: Instructor's approval.

EDUC 3430 Diverse Literature for Children (LEC 3.0)
In this course, students will critically examine children's fiction and nonfiction texts for use in early childhood and elementary classrooms and libraries. The use of children's books in interdisciplinary instruction will be emphasized, including integration of STEM, art, drama, music, and movement. Prerequisites: Educ 1040.

EDUC 3530 Teaching Integrated Social Studies and Humanities (LEC 3.0)
The course will focus on the methodology and materials needed to facilitate children's development in social studies, particularly citizenship and Missouri history/ geography. This course will integrate the curriculum and teaching strategies in social studies with music, physical education, and art. Prerequisites: Educ 1040.

EDUC 4298 Student Teaching Seminar (LEC 1.0)
Weekly seminars will be required for all students enrolled in student teaching. Contemporary educational topics, trends, reflective decision making and other pertinent topics will be covered. Reflection of topics and experiences will be exhibited in papers, portfolios and journal writings. Prerequisites: Meet all requirements for student teaching and concurrently be enrolled in student teaching.
EDUC 4299 Student Teaching (LAB 12)
This course is the culminating experience to qualify students for Missouri initial teacher certification. Students will be placed in a school with a credentialed mentor teacher in the intended area of certification. Students will be observed and evaluated by university faculty and the mentor teacher. Prerequisites: Professional standing and student teaching application approved previous semester.

EDUC 4315 Advanced Adolescent Development (LEC 3.0)
This course is an advanced examination of the intellectual and social development of the adolescent. Theories of adolescent development and their implications for the educative process are covered and debated.

EDUC 4320 Assessment and Evaluation in Special Education (LEC 3.0)
The purpose of this course is to teach the procedures and instruments used in the assessment of individuals with disabilities, including standardized and non-standardized measures of intellectual ability, academic achievement, oral language, social/emotional behaviors, career/vocational needs. Prerequisites: Educ 2310.

EDUC 4325 Language Development for Exceptional Learners (LEC 3.0)
This course provides educators with the information needed to identify, understand, and teach students with language and communication difficulties, including students who speak a home language other than English or who speak non-standard English.

EDUC 4330 Collaborative Consultation in Special Education (LEC 3.0)
This course is designed to help students acquire the knowledgebase needed to foster partnerships that are meaningful, cooperative, and productive. The course is organized around problems of practice including understanding the importance of collaborative consultation and the process for creating empowering partnerships with families and other professionals.

EDUC 4375 Cross Categorical Special Education (LEC 3.0)
Study of characteristics of students with cross-categorical disabilities and other pertinent issues including inclusion, assessment, and evaluation practices. Prerequisites: EDUC 3216.

EDUC 4380 Methods in Cross-Categorical Special Ed (LEC 3.0)
This course is designed to provide students with research-based instructional and behavior management methods for use with student with cross-categorical disabilities. Prerequisites: EDUC 3216.

EDUC 4410 Behavior Management in Special Education (LEC 3.0)
Students will learn the foundations of behavior management and positive behavioral supports. Students will learn to create a proactive learning environment through supports, interventions, and behavioral monitoring.

EDUC 4600 Learning Problems in Math (LEC 3.0)
This course will focus on the study of diagnostic and remedial instructional techniques for the teaching of mathematics. In this course, students will study the characteristics of students who struggle in mathematics. Students will develop a knowledge base of effective practices for assessment and teaching strategies in mathematics. Prerequisites: Educ 1174.