MIDDLE/SECONDARY (HIGH SCHOOL) EDUCATION (BS)

This program was approved for students entering the university in the Summer 2023–Spring 2024 catalog year. For more information about catalog year, go to Catalog Year Information (http://catalog.louisville.edu/undergraduate/university-wide-unit-specific-policies/catalog-year/).

Bachelor of Science in Middle and Secondary Education
Unit: College of Education and Human Development (http://louisville.edu/education/ (ED))
Department: Elementary, Middle and Secondary Teacher Education (http://louisville.edu/education/departments/mise/) (EMSTEd)
Academic Plan Code(s): See Track Requirements tab.

Program Information
The Department of Elementary, Middle and Secondary Teacher Education, in partnership with area schools, prepares teachers to be exemplary professional practitioners and scholars who are strong in their content knowledge as well as in effective research-informed teaching strategies. It is through the preparation of the strongest teachers that we seek to continually improve the quality of life for all in our community.

The Department of Elementary, Middle and Secondary Teacher Education (EMSTEd) offers a wide variety of programs and degrees for those interested in becoming a teacher (initial certification).

Degree Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>College/School Requirements ¹</td>
<td></td>
<td>7</td>
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<tr>
<td>Program/Major Requirements</td>
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<tr>
<td>Track Requirements ¹²</td>
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<td>65-77</td>
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<tr>
<td>Minimum Total Hours</td>
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</table>

¹ Some courses required in this degree program may satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree and Track Requirements tabs for specific coursework.

² Tracks that requires dual certification require additional coursework and may exceed 120 total hours to graduate.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements
Admission requirements for this program include the following:

• Minimum of 45 credit hours (can include hours in-progress during the semester applying)
• Minimum 2.75 or higher overall GPA
• Minimum 3.0 or higher overall GPA in EDTP 107 and EDTP 201
• Minimum test scores as required by the Education Professional Standards Board
• Grade of C or better in ENGL 102 (or equivalent)
• Grade of C or better in Oral Communication course
• Other requirements as outlined in Application.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>General Education Requirements</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>The following course is required by all tracks in the degree program and satisfies the respective General Education Requirement(s):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDTP 201</td>
<td>The Teaching Profession</td>
<td></td>
</tr>
</tbody>
</table>

Please see the Track Requirements to determine additional courses that will satisfy both a major and General Education requirement. These courses should be taken to fulfill the respective General Education Requirement.

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Pre-Professional Courses</td>
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<tr>
<td>EDTP 101</td>
<td>First-Year Experience</td>
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<tr>
<td>EDTP 201</td>
<td>The Teaching Profession</td>
<td>3</td>
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<tr>
<td>EDTP 107</td>
<td>Human Development and Learning</td>
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<tr>
<td>Minimum Total Hours</td>
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<td>7</td>
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</table>

Mid-Point Assessment Prior to Student Teaching
Completion of each methods course with a “C” or better; Completion of required core and methods courses; Electronic documentation of 200 hours of diverse and approved field experiences; satisfactory dispositions assessment; satisfactory performance on all Hallmark Assessment Tasks; Target performance or better on all rubrics.

Program/Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Core Professional Courses ²</td>
<td></td>
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<tr>
<td>EDSP 345</td>
<td>Special Populations in Schools</td>
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<tr>
<td>Code</td>
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<td>Hours</td>
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<tr>
<td>EDSP 346</td>
<td>Special Populations in Schools Field Experience</td>
<td>1</td>
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<tr>
<td>EDTP 328</td>
<td>Building Learning Communities</td>
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<tr>
<td>EDTP 330</td>
<td>Building Learning Communities Field Experience</td>
<td>1</td>
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<tr>
<td>EDTP 355</td>
<td>Assessment and Research</td>
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<tr>
<td>EDTP 420</td>
<td>Reading and Writing Across the Curriculum</td>
<td>3</td>
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<tr>
<td>EDTP 506</td>
<td>Public Schools in America: Understanding our Past to Envision our Future</td>
<td>3</td>
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<td>EDTP 477</td>
<td>Capstone Student Teaching Seminar</td>
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**Minimum Total Hours**: 20

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<tr>
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<tr>
<td>Track Requirements (see Track requirements tab)</td>
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**Degree Assessment**

2.0 or higher GPA in Student Teaching; Overall 2.50 GPA in content area; 3.0 GPA in Professional Core; Satisfactory performance on all Hallmark Assessment Tasks; Target performance or better on all rubrics.

**Certification Assessment**

Satisfactory dispositions assessment; passing scores on PRAXIS content and PLT exams; completion of degree requirements.

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<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>EDTP 301</td>
<td>General Methods *1</td>
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<td>EDTP 424</td>
<td>High School Science Methods</td>
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**Student Teaching Requirement**

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<tr>
<td>EDTP 419</td>
<td>Student Teaching: High School *1</td>
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**Competency Area Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHEM 201</td>
<td>General Chemistry I</td>
<td>3</td>
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<tr>
<td>CHEM 202</td>
<td>General Chemistry II</td>
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<tr>
<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I</td>
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<td>CHEM 208</td>
<td>Introduction to Chemical Analysis II</td>
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**Supporting Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>ENVS 200</td>
<td>The Global Environment</td>
<td>3</td>
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<tr>
<td>MATH 180</td>
<td>Elements of Calculus</td>
<td>3-4</td>
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<tr>
<td>or MATH 205</td>
<td>Calculus I</td>
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<tr>
<td>PHYS 111</td>
<td>Elements of Physics</td>
<td>4</td>
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<tr>
<td>ENVS 365</td>
<td>Biogeography</td>
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<td>Electives</td>
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**Supporting Course**

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<tbody>
<tr>
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<td>MATH 206</td>
<td>Calculus II</td>
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<tr>
<td>PHYS 221</td>
<td>Fundamentals of Physics I</td>
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<td>PHYS 222</td>
<td>Fundamentals of Physics II</td>
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<tr>
<td>PHYS 223</td>
<td>Fundamentals of Physics Lab I</td>
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**Track Requirements**

**Secondary (High School) Tracks (Grades 8-12)**

**Biology**

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<tr>
<td>BIOL 240</td>
<td>Unity of Life</td>
<td>3</td>
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<tr>
<td>BIOL 241</td>
<td>Unity of Life Lab</td>
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<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
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<tr>
<td>BIOL 243</td>
<td>Diversity of Life Lab</td>
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<tr>
<td>BIOL 329</td>
<td>Cellular and Molecular Biology</td>
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<tr>
<td>BIOL 330</td>
<td>Genetics and Molecular Biology</td>
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<tr>
<td>BIOL 331</td>
<td>Genetics and Molecular Biology: Laboratory</td>
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<tr>
<td>BIOL 363</td>
<td>Principles of Ecology</td>
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<td>BIOL 409</td>
<td>Evolutionary Biology</td>
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<tr>
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<tr>
<td>CHEM 201</td>
<td>General Chemistry I</td>
<td>3</td>
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**Supporting Courses**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>MATH 180</td>
<td>Elements of Calculus</td>
<td>3-4</td>
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<tr>
<td>BIOL Elective 300 level or above</td>
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**Minimum Total Hours**: 75

Jump to footnotes table.
Earth Science
Academic Plan Code(s): MISEBS_EAS

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<td>EDTP 301</td>
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<td>EDTP 424</td>
<td>High School Science Methods</td>
<td>3</td>
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<tr>
<td>Student Teaching Requirement</td>
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<tr>
<td>EDTP 419</td>
<td>Student Teaching: High School ¹</td>
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**Competency Area Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
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<td>BIOL 241</td>
<td>Unity of Life Lab</td>
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<tr>
<td>BIOL 242</td>
<td>Diversity of Life</td>
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<tr>
<td>BIOL 243</td>
<td>Diversity of Life Lab</td>
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</tr>
<tr>
<td>ENVS 200</td>
<td>The Global Environment</td>
<td>3</td>
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<tr>
<td>ENVS 360</td>
<td>Global Environmental Change</td>
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<tr>
<td>ENVS 363</td>
<td>Climate Science</td>
<td>3</td>
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<tr>
<td>ENVS 367</td>
<td>Geomorphology</td>
<td>3</td>
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<tr>
<td>ENVS 564</td>
<td>Hydrology</td>
<td>3</td>
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<tr>
<td>PHYS 107</td>
<td>Elementary Astronomy</td>
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<td>PHYS 108</td>
<td>Elementary Astronomy Laboratory</td>
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<tr>
<td>PHYS 220</td>
<td>Introduction to Weather and Climate</td>
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**Supporting Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>CHEM 207</td>
<td>Introduction to Chemical Analysis I</td>
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<td>CHEM 208</td>
<td>Introduction to Chemical Analysis II</td>
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<td>CHEM 209</td>
<td>Introduction to Chemical Analysis III</td>
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**Supporting Courses**

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<tbody>
<tr>
<td>ENGL 300</td>
<td>Introduction to Literature</td>
<td>3</td>
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<tr>
<td>ENGL 301</td>
<td>Literature in English Before 1800</td>
<td>3</td>
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<tr>
<td>ENGL 302</td>
<td>Literature in English After 1800</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 310</td>
<td>Special Topics: Introduction to Professional and Public Writing</td>
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<tr>
<td>ENGL 506</td>
<td>Teaching of Writing</td>
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Select one of the following British or American Literature courses: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENGL 394</td>
<td>American Short Fiction</td>
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Minimum Total Hours 72

Jump to footnotes table. (p. )

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English
Academic Plan Code(s): MISEBS_ENG

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<tbody>
<tr>
<td>EDTP 301</td>
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<td>EDTP 422</td>
<td>High School English Methods</td>
<td>3</td>
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<tr>
<td>Student Teaching Requirement</td>
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<tr>
<td>EDTP 419</td>
<td>Student Teaching: High School ¹</td>
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**Competency Area Courses**

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<tbody>
<tr>
<td>EDTP 540</td>
<td>Teaching Adolescent Readers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 300</td>
<td>Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 301</td>
<td>Literature in English Before 1800</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 302</td>
<td>Literature in English After 1800</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 310</td>
<td>Special Topics: Introduction to Professional and Public Writing</td>
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Select one of the following British or American Literature courses: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 394</td>
<td>American Short Fiction</td>
<td>3</td>
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</table>

**Supporting Courses**

Ancient through Renaissance Culture course: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HUM 301</td>
<td>Ancient Greek and Roman Cultures</td>
<td>3</td>
</tr>
<tr>
<td>HUM 302</td>
<td>Medieval Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 303</td>
<td>Renaissance Cultures</td>
<td>3</td>
</tr>
<tr>
<td>HUM 338</td>
<td>Greek Mythology</td>
<td>3</td>
</tr>
<tr>
<td>HUM 339</td>
<td>Studies in World Mythology</td>
<td>3</td>
</tr>
<tr>
<td>HUM 354</td>
<td>Masterpieces of Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>HUM 355</td>
<td>Masterpieces of Ancient Rome</td>
<td>3</td>
</tr>
<tr>
<td>HUM 356</td>
<td>Masterpieces of the Middle Ages</td>
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</tr>
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<td>HUM 357</td>
<td>Masterpieces of the Renaissance</td>
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**Supporting Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 325</td>
<td>Introduction to Linguistics</td>
<td>3</td>
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<tr>
<td>ENGL 342</td>
<td>Black Women Novelists</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 373</td>
<td>Women and Global Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 374</td>
<td>Gender, Race, Sexuality in Children's Lit</td>
<td>3</td>
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<tr>
<td>ENGL 375</td>
<td>LGBTQ Literature in the United States</td>
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Select one of the following Linguistics courses: 3

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<td>Medieval Culture</td>
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<td>HUM 339</td>
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<tr>
<td>HUM 354</td>
<td>Masterpieces of Ancient Greece</td>
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<td>HUM 355</td>
<td>Masterpieces of Ancient Rome</td>
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<tr>
<td>HUM 356</td>
<td>Masterpieces of the Middle Ages</td>
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<td>HUM 357</td>
<td>Masterpieces of the Renaissance</td>
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**Supporting Courses**

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<td>Gender, Race, Sexuality in Children’s Lit</td>
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<tr>
<td>ENGL 375</td>
<td>LGBTQ Literature in the United States</td>
<td>3</td>
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Or other course approved by advisor

TA 224 | Introduction to Acting as Communication | 3 |

Total Electives 300 level or above 9
Middle/Secondary (High School) Education (BS)

French (Grades P-12)
Academic Plan Code(s): MISEBS_FRE

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Student Teaching Requirement

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Competency Area Courses

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<th>Code</th>
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<tbody>
<tr>
<td>FREN 202</td>
<td>Continuing French Language and Culture II</td>
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<td>FREN 321</td>
<td>French Conversation</td>
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<td>FREN 322</td>
<td>Written Expression</td>
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<td>FREN 331</td>
<td>French Civilization</td>
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<td>FREN 332</td>
<td>France Today</td>
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<td>FREN 455</td>
<td>Reading in French</td>
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<td>FREN 523</td>
<td>Advanced Communication Skills</td>
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<tr>
<td>FREN 524</td>
<td>Theory and Practice of Translation</td>
<td>3</td>
</tr>
<tr>
<td>FREN Electives 300 level or above</td>
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Supporting Courses

Supporting Courses must be approved by advisor.

| Electives | 5 |

Minimum Total Hours

Jump to footnotes table. (p. 9)

Physics
Academic Plan Code(s): MISEBS_PHY

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<thead>
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<td>General Methods</td>
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<td>EDTP 424</td>
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Student Teaching Requirement

<table>
<thead>
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<th>Hours</th>
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Competency Area Courses

<table>
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<tbody>
<tr>
<td>PHYS 295</td>
<td>Introductory Laboratories I</td>
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<tr>
<td>PHYS 296</td>
<td>Introductory Laboratories II</td>
<td>1</td>
</tr>
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<td>PHYS 298</td>
<td>Introductory Mechanics, Heat and Sound</td>
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<td>PHYS 299</td>
<td>Introductory Electricity, Magnetism and Light</td>
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<td>PHYS 300</td>
<td>Introductory Modern Physics</td>
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<td>PHYS 301</td>
<td>Introductory Modern Physics Laboratory</td>
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<td>PHYS 460</td>
<td>Mechanics</td>
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<td>PHYS 530</td>
<td>Thermal Physics</td>
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<td>CHEM 201</td>
<td>General Chemistry I</td>
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Supporting Courses

| Supporting Courses | 2 |

| Electives | 3 |

Minimum Total Hours

Jump to footnotes table. (p. 9)

Mathematics
Academic Plan Code(s): MISEBS_SMA

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Student Teaching Requirement

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Competency Area Courses

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<td>MATH 205</td>
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<td>MATH 206</td>
<td>Calculus II</td>
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<td>Calculus III</td>
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<tr>
<td>MATH 311</td>
<td>Introduction to Higher Math</td>
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<td>MATH 325</td>
<td>Introduction to Linear Algebra</td>
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<td>MATH 387</td>
<td>Discrete Mathematics</td>
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<tr>
<td>MATH 521</td>
<td>Modern Algebra I</td>
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<td>MATH 561</td>
<td>Probability</td>
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<td>MATH 550</td>
<td>Advanced Euclidean Geometry</td>
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<tr>
<td>or MATH 551</td>
<td>Geometry</td>
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Supporting Courses

| Electives | 3 |

Minimum Total Hours

Jump to footnotes table. (p. 9)

Social Studies
Academic Plan Code(s): MISEBS_SST

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<td>High School Social Studies Methods</td>
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Student Teaching Requirement

| Electives | 3 |

Minimum Total Hours

Jump to footnotes table. (p. 9)
### Middle/Secondary (High School) Education (BS)

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**Competency Area Courses**

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<tbody>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics</td>
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<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 200</td>
<td>The Global Environment</td>
<td>3</td>
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<tr>
<td>GEOG 200</td>
<td>Human Geography in a Changing World</td>
<td>3</td>
</tr>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>History of Civilizations II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 104</td>
<td>American History I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 105</td>
<td>American History II</td>
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Select one of the following Modern World History courses: 3

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<thead>
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<th>Code</th>
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<tbody>
<tr>
<td>HIST 308</td>
<td>Europe from 1500 to the French Revolution</td>
<td>3</td>
</tr>
<tr>
<td>HIST 309</td>
<td>Europe from 1800 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 332</td>
<td>Latin America, 1820 to Present</td>
<td>3</td>
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<tr>
<td>HIST 357</td>
<td>Middle Eastern History, 1453 to the Present</td>
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<td>or other course approved by advisor</td>
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Select one of the following Post Reconstruction courses: 3

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>HIST 519</td>
<td>Gilded Age and Progressive Era United States, 1877-1929</td>
<td>3</td>
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<tr>
<td>HIST 529</td>
<td>Recent American History, 1945 to Present</td>
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<td>or other course approved by advisor</td>
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</table>

POLS 201 | Introduction to American Government and Politics | 3     |

**Supporting Courses**

Supporting Courses: 15

Electives: 8

**Minimum Total Hours:** 71

*Jump to footnotes table. (p. 9)*

### Spanish (Grades P-12)

*Academic Plan Code(s): MISEBS_SPA*

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<tr>
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<tr>
<td>EDTP 301</td>
<td>General Methods</td>
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<tr>
<td>EDTP 429</td>
<td>World Language Methods, P-12</td>
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**Student Teaching Requirement**

EDTP 412 | Student Teaching: P-12                         | 9     |

**Competency Area Courses**

<table>
<thead>
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<tbody>
<tr>
<td>SPAN 201</td>
<td>Continuing Spanish Language and Culture I</td>
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<td>SPAN 202</td>
<td>Continuing Spanish Language and Culture II</td>
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<tr>
<td>SPAN 301</td>
<td>Spanish Pronunciation</td>
<td>3</td>
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<tr>
<td>SPAN 305</td>
<td>Spanish Grammar in Context</td>
<td>3</td>
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<tr>
<td>SPAN 310</td>
<td>Reading and Writing in Spanish</td>
<td>3</td>
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<tr>
<td>SPAN 311</td>
<td>Advanced Spanish through literature and film</td>
<td>3</td>
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<tr>
<td>SPAN 321</td>
<td>Communication and Conversation in Spanish</td>
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<tr>
<td>SPAN 401</td>
<td>Foundations of Spanish Civilization</td>
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<tr>
<td>or SPAN 402</td>
<td>Cultural and Literary Perspectives on Modern Spain</td>
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<tr>
<td>SPAN 403</td>
<td>Foundations of Latin American Nations and Identities</td>
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<tr>
<td>or SPAN 404</td>
<td>Cultural and Literary Perspectives on Modern Latin America</td>
<td>3</td>
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<td>SPAN 422</td>
<td>Spanish Phonetics</td>
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<tr>
<td>SPAN 524</td>
<td>Introduction to Hispanic Linguistics</td>
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**Supporting Courses**

<table>
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**Minimum Total Hours:** 65

### Middle School (Grades 5-9): Single Certification Tracks

#### Social Studies

*Academic Plan Code: MISEBS_MST*

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<tr>
<td>EDTP 341</td>
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<tr>
<td>EDTP 410</td>
<td>Middle School Social Studies Methods</td>
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</table>

**Student Teaching Requirement**

EDTP 417 | Student Teaching: Middle School                | 9     |

**Competency Area Courses**

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>HIST 101</td>
<td>History of Civilizations I</td>
<td>3</td>
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<tr>
<td>HIST 102</td>
<td>History of Civilizations II</td>
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<tr>
<td>HIST 104</td>
<td>American History I</td>
<td>3</td>
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<tr>
<td>HIST 105</td>
<td>American History II</td>
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<tr>
<td>HIST 500 Level Course</td>
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<tr>
<td>POLS 201</td>
<td>Introduction to American Government and Politics</td>
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<td>POLS 300 Level Course</td>
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<tr>
<td>GEOF 200</td>
<td>Human Geography in a Changing World</td>
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<td>GEOF Elective 300 level or above</td>
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<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics</td>
<td>3</td>
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<tr>
<td>or ECON 202</td>
<td>Principles of Macroeconomics</td>
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**Supporting Courses**

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<tbody>
<tr>
<td>ANTH 201</td>
<td>Introduction to Cultural Anthropology</td>
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<tr>
<td>or SOC 201</td>
<td>Introduction to Sociology</td>
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<tr>
<td>or SOC 202</td>
<td>Social Problems</td>
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Supporting Courses (at least 6 hours must be at the 300 level or above): 9

Electives: 11

**Minimum Total Hours:** 68

### English

*Academic Plan Code: MISEBS_LGA*

<table>
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<tr>
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<td>EDTP 341</td>
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<tr>
<td>EDTP 407</td>
<td>Middle School Language Arts Methods</td>
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**Student Teaching Requirement**

EDTP 417 | Student Teaching: Middle School                | 9     |

**Competency Area Courses**

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<tbody>
<tr>
<td>ENGL 202</td>
<td>Introduction to Creative Writing</td>
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<tr>
<td>ENGL 300</td>
<td>Introduction to Literature</td>
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<tr>
<td>ENGL 301</td>
<td>Literature in English Before 1800</td>
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### ENGL 302
Literature in English After 1800 3

### ENGL 310
Special Topics: Introduction to Professional and Public Writing 3

### ENGL 306
Teaching of Writing 3

### EDTP 540
Teaching Adolescent Readers 3

### Drama in English: Choose from list below 3
- **ENGL 333** Shakespeare I
- **ENGL 334** Shakespeare II
- **ENGL 562** Shakespeare

### Diverse Literature I: Choose from list below 3
- **ENGL 342** Black Women Novelists
- **ENGL 368** Minority Traditions in English Literatures
- **ENGL 369** Minority Traditions in American Literature
- **ENGL 373** Women and Global Literature
- **ENGL 374** Gender, Race, Sexuality in Children's Lit
- **ENGL 375** LGBTQ Literature in the United States
- **ENGL 423** Special Topics: African-American Literature Before 1900
- **ENGL 424** African-American Literature Since 1900
- **PAS 340** African-American Literature

### Linguistics: Choose from list below 3
- **ENGL 325** Introduction to Linguistics
- **or LING 325** Introduction to Linguistics
- **EDTP 522** Methods of Teaching Grammar, K-12

### Supporting Courses
- **HUM 301** Ancient Greek and Roman Cultures
- **HUM 302** Medieval Culture
- **HUM 303** Renaissance Cultures
- **HUM 338** Greek Mythology
- **HUM 339** Studies in World Mythology
- **HUM 354** Masterpieces of Ancient Greece
- **HUM 355** Masterpieces of Ancient Rome
- **HUM 356** Masterpieces of the Middle Ages
- **HUM 357** Masterpieces of the Renaissance

### Humanities - Medieval and Renaissance Cultures: Choose from list below 3
- **HUM 240** Unity of Life
- **HUM 241** Unity of Life Lab
- **HUM 242** Diversity of Life
- **HUM 243** Diversity of Life Lab
- **HUM 363** Principles of Ecology
- **CHEM 200** General Chemistry I
- **CHEM 201** General Chemistry II
- **CHEM 205** Introduction to Chemical Analysis I
- **CHEM 208** Introduction to Chemical Analysis II
- **ENV 200** The Global Environment
- **ENV 220** Introduction to Weather and Climate
- **ENV 301** Geology for Scientists and Engineers
- **PHYS 107** Elementary Astronomy
- **PHYS 108** Elementary Astronomy Laboratory
- **PHYS 111** Elements of Physics

### Electives 14

### Minimum Total Hours 68

### Mathematics

#### Academic Plan Code: MISEBS_MMA

<table>
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<tr>
<td>EDTP 408</td>
<td>Middle School Mathematics Methods</td>
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### Competency Area Courses
- **MATH 109** Introduction to Social Statistics 3
- **MATH 151** Mathematics for Elementary Education I 3
- **MATH 152** Mathematics for Elementary Education II 3
- **MATH 190** Precalculus 4
- **MATH 205** Calculus I 4
- **MATH 350** Geometric Investigations 3
- **MATH 451** Problem Solving in Number Systems and Discrete Mathematics 3

### Supporting Courses
- **PHYS 111** Elements of Physics 4
- **Supporting Courses** 8
- **Electives** 22

### Minimum Total Hours 72

### Science

#### Academic Plan Code: MISEBS_SCI

<table>
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<tr>
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### Competency Area Courses
- **BIO 101** Unity of Life 3
- **BIO 102** Unity of Life Lab 1
- **BIO 202** Diversity of Life 3
- **BIO 203** Diversity of Life Lab 1
- **BIO 302** Principles of Ecology 3
- **CHEM 200** General Chemistry I 3
- **CHEM 201** General Chemistry II 3
- **CHEM 202** Introduction to Chemical Analysis I 1
- **CHEM 208** Introduction to Chemical Analysis II 1
- **ENV 200** The Global Environment 3
- **ENV 220** Introduction to Weather and Climate 3
- **ENV 301** Geology for Scientists and Engineers 3
- **PHYS 107** Elementary Astronomy 3
- **PHYS 108** Elementary Astronomy Laboratory 1
- **PHYS 111** Elements of Physics 4

### Supporting Courses
- **PHYS 221** Fundamentals of Physics I 3
- **PHYS 222** Fundamentals of Physics II 3
- **PHYS 223** Fundamentals of Physics Lab I 1
- **PHYS 224** Fundamentals of Physics Laboratory II 1
- **MATH 100** Elements of Calculus 3-4
- **or MATH 205** Calculus I 3

### Minimum Total Hours 68

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**Middle/Secondary (High School) Education (BS)**
## Middle School (Grades 5-9): Dual Certification Tracks
### Mathematics and English

**Academic Plan Code(s):** MISEBS_MEN

<table>
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<tr>
<td>EDTP 407</td>
<td>Middle School Language Arts Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDTP 408</td>
<td>Middle School Mathematics Methods</td>
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</tr>
<tr>
<td><strong>Student Teaching Requirement</strong></td>
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</tr>
<tr>
<td>EDTP 417</td>
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<tr>
<td><strong>Competency Area Courses</strong></td>
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</tr>
<tr>
<td>MATH 109</td>
<td>Introduction to Social Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Mathematics for Elementary Education I</td>
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</tr>
<tr>
<td>MATH 152</td>
<td>Mathematics for Elementary Education II</td>
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<tr>
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<tr>
<td>MATH 190</td>
<td>Precalculus</td>
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<tr>
<td>MATH 111</td>
<td>College Algebra</td>
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<tr>
<td>&amp; MATH 112</td>
<td>Trigonometry</td>
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<tr>
<td>MATH 205</td>
<td>Calculus I</td>
<td>4-3</td>
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**Minimum Total Hours**  75

### English (Grades 5-9) and Learning Behavior Disorders (Grades P-12)

**Academic Plan Code(s):** MISEBS_EBD

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**Minimum Total Hours**  69
## Middle/Secondary (High School) Education (BS)

### Mathematics and Science

#### Academic Plan Code(s): MISEBS_MNC

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<td>EDTP 408</td>
<td>Middle School Mathematics Methods</td>
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#### Competency Area Courses

- MATH 109  Introduction to Social Statistics  3
- MATH 151  Mathematics for Elementary Education I  3
- MATH 152  Mathematics for Elementary Education II  3

Select one of the following:

- MATH 190  Precalculus  4
- MATH 111 & MATH 112  College Algebra & Trigonometry  3
- MATH 205 or MATH 180  Calculus I & Elements of Calculus  4
- MATH 350  Geometric Investigations  3
- MATH 451  Problem Solving in Number Systems and Discrete Mathematics  3
- HIST 101  History of Civilizations I  3
- HIST 102  History of Civilizations II  3
- HIST 104  American History I  3
- HIST 105  American History II  3
- HIST Elective 500 level  3
- POLS 201  Introduction to American Government and Politics  3
- POLS Elective 300 level or above  3
- GEOG 200  Human Geography in a Changing World  3
- GEOG Elective 300 level or above  3
- ECON 201  Principles of Microeconomics  3
- or ECON 202  Principles of Macroeconomics  3

**Minimum Total Hours**: 77

*Jump to footnotes table.*

### Mathematics (Grades 5-9) and Learning and Behavior Disorders (Grades P-12)

#### Academic Plan Code(s): MISEBS_MLD

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#### Competency Area Courses

- MATH 109  Introduction to Social Statistics  3
- MATH 151  Mathematics for Elementary Education I  3
- MATH 152  Mathematics for Elementary Education II  3

Select one of the following:

- MATH 190  Precalculus  4
- MATH 111 & MATH 112  College Algebra & Trigonometry  3
- MATH 205 or MATH 180  Calculus I & Elements of Calculus  4
- MATH 350  Geometric Investigations  3
- MATH 451  Problem Solving in Number Systems and Discrete Mathematics  3

**Minimum Total Hours**: 77

*Jump to footnotes table.*

### Mathematics and Social Studies

#### Academic Plan Code(s): MISEBS_MCS

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#### Competency Area Courses

- MATH 109  Introduction to Social Statistics  3
- MATH 151  Mathematics for Elementary Education I  3
- MATH 152  Mathematics for Elementary Education II  3

Select one of the following:

- MATH 190  Precalculus  4
- MATH 111 & MATH 112  College Algebra & Trigonometry  3
- MATH 205 or MATH 180  Calculus I & Elements of Calculus  4
- MATH 350  Geometric Investigations  3
- MATH 451  Problem Solving in Number Systems and Discrete Mathematics  3

**Minimum Total Hours**: 77

*Jump to footnotes table.*

*Jump to footnotes table.* (p. 9)
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Minimum Total Hours 68
2. Choose from Biology, Geosciences, Mathematics, Physics, or Chemistry as approved by advisor.
3. At least nine credit hours must be earned at the 300 level or above.
4. Courses must be approved by advisor.

Flight Plan

### Track in Biology (Grades 8-12)

#### Year 1

**Fall**

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<td>EDTP 101</td>
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**Spring**

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**Total Hours:** 14

#### Year 2

**Fall**

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<td>CHEM 207</td>
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<td>CHEM 208</td>
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<td>Human Development and Learning</td>
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<td>ENVS 200</td>
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**Spring**

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<td>PHYS 111</td>
<td>Elements of Physics</td>
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**Total Hours:** 16

#### Year 3

**Fall**

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<td>Building Learning Communities</td>
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<td>EDTP 330</td>
<td>Building Learning Communities Field Experience</td>
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<td>Reading and Writing Across the Curriculum</td>
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<td>Cellular and Molecular Biology</td>
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**Spring**

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<td>Special Populations in Schools</td>
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**Total Hours:** 15

### Track in Chemistry (Grades 8-12)

#### Year 1

**Fall**

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**Spring**

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#### Year 2

**Fall**

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**Spring**

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**Total Hours:** 17

#### Year 3

**Fall**

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**Minimum Total Hours:** 120
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### Track in Earth and Space Science (Grades 8-12)

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### Minimum Total Hours
- Year 1: 14
- Year 2: 15
- Year 3: 16
- Year 4: 15
- Total: 120
### Year 2

**Fall**
- EDTP 107 Human Development and Learning 3
- ENGL 202 Introduction to Creative Writing 3
- ENGL 300 Introduction to Literature 3
- General Education: Cardinal Core Arts and Humanities - AHD1 or AHD2 3
- General Elective 3
- General Elective 3
- **Hours** 16

**Spring**
- ENGL 301 Literature in English Before 1800 3
- ENGL 310 Special Topics: Introduction to Professional and Public Writing 3
- Humanities - Medieval and Renaissance Cultures (Choose from list on Degree tab) 3
- General Elective 3
- General Elective 3
- **Hours** 15

### Year 3

**Fall**
- EDTP 328 Building Learning Communities 3
- EDTP 330 Building Learning Communities Field Experience 1
- EDTP 341 Teaching Middle School 3
- EDTP 420 Reading and Writing Across the Curriculum 3
- EDTP 540 Teaching Adolescent Readers 3
- ENGL 302 Literature in English After 1800 3
- **Hours** 16

**Spring**
- EDSP 345 Special Populations in Schools 3
- EDSP 346 Special Populations in Schools Field Experience 1
- EDTP 407 Middle School Language Arts Methods 3
- ENGL 325 Introduction to Linguistics 3
- or LING 325 or Introduction to Linguistics 3
- or EDTP 522 or Methods of Teaching Grammar, K-12 3
- Advanced Composition (Choose from list on Degree tab) 3
- Diverse Literature I (Choose from list on Degree tab) 3
- **Hours** 16

### Year 4

**Fall**
- EDTP 417 Student Teaching: Middle School 9
- EDTP 477 Capstone Student Teaching Seminar 3
- **Hours** 12

**Spring**
- EDTP 355 Assessment and Research 3
- EDTP 506 Public Schools in America: Understanding our Past to Envision our Future 3
- ENGL 333 Shakespeare I 3
- or ENGL 334 or Shakespeare II 3
- or ENGL 562 or Shakespeare 3
- ENGL 506 Teaching of Writing 3
- Diverse Literature II (Choose second course from list on Degree tab) 3
- **Hours** 15

**Minimum Total Hours** 120

### Track in English – Leading to Certification in Grades 5-9, and Learning and Behavior Disorders – Leading to Certification in Grades P-12

### Year 1

**Fall**
- EDTP 101 First-Year Experience 1
- EDTP 201 The Teaching Profession 3
- ENGL 101 Introduction to College Writing 3
- General Education: Cardinal Core Quantitative Reasoning - QR 3
- General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective US Diversity or Global Diversity - SBHD1 or SBHD2 3
- **Hours** 13

**Spring**
- ENGL 102 Intermediate College Writing 3
- EDSP 240 Introduction to Exceptional Children 3
- General Education: Cardinal Core Natural Sciences - S 3
- General Education: Cardinal Core Natural Sciences Lab - SL 1
- General Education: Cardinal Core Oral Communication - OC 3
- General Education: Cardinal Core Arts and Humanities (AHD1 or AHD2) 3
- **Hours** 12

### Year 2

**Fall**
- EDSP 218 Technology for Students with Disabilities 3
- EDTP 107 Human Development and Learning 3
- ENGL 202 Introduction to Creative Writing 3
- ENGL 300 Introduction to Literature 3
- Diverse Literature Course - Choose From Approved List on Tracks Tab 3
- **Hours** 15

**Spring**
- EDSP 260 Classroom Behavior Management 3
- ENGL 301 Literature in English Before 1800 3
- ENGL 310 Special Topics: Introduction to Professional and Public Writing 3
- General Education: Cardinal Core Natural Sciences - S 3
- **Hours** 12

### Year 3

**Fall**
- EDSP 442 Practicum: Learning and Behavior Disorders 3
- EDSP 512 Methods for Students with Learning and Behavior Disorders 3
- EDSP 516 Assessment Procedures for Students with Learning & Behavior Disorders 3
- EDTP 341 Teaching Middle School 3
- EDTP 420 Reading and Writing Across the Curriculum 3
- EDTP 540 Teaching Adolescent Readers 3
- **Hours** 18

**Spring**
- EDSP 345 Special Populations in Schools 3
- EDSP 346 Special Populations in Schools Field Experience 1
- EDSP 518 Teaching Reading Special Education P-12 3
- EDTP 328 Building Learning Communities 3
- EDTP 330 Building Learning Communities Field Experience 1
- EDTP 407 Middle School Language Arts Methods 3
- ENGL 302 Literature in English After 1800 3
- **Hours** 17

### Year 4

**Fall**
- EDSP 470 Student Teaching, LBD 6
- EDTP 417 Student Teaching: Middle School 6
- EDTP 477 Capstone Student Teaching Seminar 3
- **Hours** 15
## Track in English (Grades 8-12)

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| ENGL 506 | Teaching of Writing | 3 |

### Year 4

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## Track in French (Grades P-12)

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| Hours | 16 |

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| Hours | 15 |

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| Hours | 13 |

### Spring

| FREN 332 | France Today | 3 |

| Hours | 3 |

| French Elective (300 level or above) | 3 |
| General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2 | 3 |
| General Elective | 3 |
### General Elective Hours

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### Minimum Total Hours

120

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### Track in Mathematics (Grades 5-9)

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### Track in Mathematics and English (Grades 5-9)

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#### Year 2

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**Track in Mathematics – Leading to Certification in Grades 5-9, and Learning and Behavior Disorders - Leading to Certification in Grades P-12**

### Year 1

#### Fall
- EDTP 101 First-Year Experience 1
- EDTP 201 Teaching Profession 3
- ENGL 101 Introduction to College Writing 3
- MATH 190 PreCalculus 3
- General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH 3

#### Hours
14

#### Spring
- EDSP 218 Technology for Students with Disabilities 3
- EDTP 107 Human Development and Learning 3
- MATH 151 Mathematics for Elementary Education I 3
- MATH 350 Geometric Investigations 3
- General Education: Cardinal Core Social & Behavioral Sciences Global Diversity - AHD1 3
- General Education: Cardinal Core Natural Sciences - S 3

#### Hours
16

### Year 2

#### Fall
- EDSP 218 Technology for Students with Disabilities 3
- EDTP 107 Human Development and Learning 3
- MATH 151 Mathematics for Elementary Education I 3
- MATH 350 Geometric Investigations 3
- General Education: Cardinal Core Social & Behavioral Sciences Global Diversity - AHD1 3
- General Education: Cardinal Core Natural Sciences - S 3

#### Hours
16

#### Spring
- EDSP 260 Classroom Behavior Management 3
- MATH 152 Mathematics for Elementary Education II 3
- MATH 451 Problem Solving in Number Systems and Discrete Mathematics 3
- General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2 3
- General Education: Cardinal Core Natural Science (S) 3
- General Education: Cardinal Core Natural Science Lab (SL) 1

#### Hours
16

### Year 3

#### Fall
- EDSP 442 Practicum: Learning and Behavior Disorders 3
- EDSP 512 Methods for Students with Learning and Behavior Disorders 3
- EDSP 516 Assessment Procedures for Students with Learning & Behavior Disorders 3
- EDTP 201 Teaching Middle School 3
- EDTP 420 Reading and Writing Across the Curriculum 3

#### Hours
15

#### Spring
- EDSP 345 Special Populations in Schools 3
- EDSP 346 Special Populations in Schools Field Experience 1
- EDSP 518 Teaching Reading Special Education P-12 3
- EDTP 328 Building Learning Communities 3
- EDTP 330 Building Learning Communities Field Experience 1
- EDTP 408 Middle School Mathematics Methods 3

#### Hours
14

### Year 4

#### Fall
- EDSP 470 Student Teaching, LBD 6
- EDTP 417 Student Teaching: Middle School 6
- EDTP 477 Capstone Student Teaching Seminar 3

#### Hours
15
### Track in Mathematics and Science (Grades 5-9)

#### Year 1

**Fall**
- EDTP 101 First-Year Experience 1
- ENGL 101 Introduction to College Writing 3
- MATH 190 Precalculus 4
- General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2 3
- ENVS 200 The Global Environment 3

**Spring**
- EDTP 201 The Teaching Profession 3
- ENGL 102 Intermediate College Writing 3
- MATH 205 Calculus I 4
- or MATH 180 or Elements of Calculus 3
- PHYS 107 Elementary Astronomy 3
- PHYS 108 Elementary Astronomy Laboratory 1
- General Education: Cardinal Core Oral Communication - OC 3

**Fall**
- BIOL 240 Unity of Life 3
- BIOL 241 Unity of Life Lab 1
- EDTP 107 Human Development and Learning 3
- MATH 109 Introduction to Social Statistics 3
- MATH 151 Mathematics for Elementary Education I 3
- ENVS 220 Introduction to Weather and Climate 3

**Spring**
- BIOL 242 Diversity of Life 3
- BIOL 243 Diversity of Life Lab 1
- CHEM 201 General Chemistry I 3
- CHEM 207 Introduction to Chemical Analysis I 3
- CHEM 208 Introduction to Chemical Analysis II 3
- MATH 152 Mathematics for Elementary Education II 3
- General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2 3

**Hours**

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#### Year 2

**Fall**
- EDTP 328 Building Learning Communities 3
- EDTP 330 Building Learning Communities Field Experience 1
- EDTP 341 Teaching Middle School 3
- EDTP 420 Reading and Writing Across the Curriculum 3
- CHEM 202 General Chemistry II 3
- MATH 350 Geometric Investigations 3

**Spring**
- EDSP 345 Special Populations in Schools 3
- EDSP 346 Special Populations in Schools Field Experience 3
- EDTP 408 Middle School Mathematics Methods 3
- EDTP 409 Middle School Science Methods 3

**Fall**
- EDTP 417 Student Teaching: Middle School 9
- EDTP 417 Capstone Student Teaching Seminar 3

**Hours**

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#### Year 3

**Fall**
- BIOL 363 Principles of Ecology 3
- EDTP 355 Assessment and Research 3
- EDTP 506 Public Schools in America: Understanding our Past to Envision our Future 3
- PHYS 111 Elements of Physics 4
- ENVS 301 Geology for Scientists and Engineers 3

**Spring**
- BIOL 243 Diversity of Life Lab 1
- CHEM 201 General Chemistry I 3
- CHEM 207 Introduction to Chemical Analysis I 3
- CHEM 208 Introduction to Chemical Analysis II 3
- MATH 152 Mathematics for Elementary Education II 3
- General Education: Cardinal Core Oral Communication - OC 3

**Fall**
- HIST 102 History of Civilizations II 3
- HIST 105 American History II 3
- MATH 152 Mathematics for Elementary Education II 3
- General Education: Cardinal Core Arts & Humanities - AH 3
- General Education: Cardinal Core Natural Science (S) 3

**Spring**
- BIOL 243 Diversity of Life 3
- CHEM 201 General Chemistry I 3
- CHEM 207 Introduction to Chemical Analysis I 3
- CHEM 208 Introduction to Chemical Analysis II 3
- MATH 152 Mathematics for Elementary Education II 3
- General Education: Cardinal Core Natural Science Lab (SL) 1

**Fall**
- BIOL 363 Principles of Ecology 3
- EDTP 355 Assessment and Research 3
- EDTP 506 Public Schools in America: Understanding our Past to Envision our Future 3
- PHYS 111 Elements of Physics 4
- ENVS 301 Geology for Scientists and Engineers 3

**Hours**

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#### Minimum Total Hours

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### Track in Mathematics and Social Studies (Grades 5-9)

#### Year 1

**Fall**
- EDTP 101 First-Year Experience 1
- ENGL 101 Introduction to College Writing 3
- MATH 190 Precalculus 4
- General Education: Cardinal Core Arts & Humanities - AH 3
- ENVS 200 The Global Environment 3

**Spring**
- EDTP 201 The Teaching Profession 3
- ENGL 102 Intermediate College Writing 3
- MATH 205 Calculus I 4
- or MATH 180 or Elements of Calculus 3
- PHYS 107 Elementary Astronomy 3
- PHYS 108 Elementary Astronomy Laboratory 1
- General Education: Cardinal Core Oral Communication - OC 3

**Fall**
- BIOL 240 Unity of Life 3
- BIOL 241 Unity of Life Lab 1
- EDTP 107 Human Development and Learning 3
- MATH 109 Introduction to Social Statistics 3
- MATH 151 Mathematics for Elementary Education I 3
- ENVS 220 Introduction to Weather and Climate 3

**Spring**
- BIOL 242 Diversity of Life 3
- BIOL 243 Diversity of Life Lab 1
- CHEM 201 General Chemistry I 3
- CHEM 207 Introduction to Chemical Analysis I 3
- CHEM 208 Introduction to Chemical Analysis II 3
- MATH 152 Mathematics for Elementary Education II 3
- General Education: Cardinal Core Arts & Humanities Global Diversity - AHD2 3

**Fall**
- EDTP 328 Building Learning Communities 3
- EDTP 330 Building Learning Communities Field Experience 1
- EDTP 341 Teaching Middle School 3
- EDTP 420 Reading and Writing Across the Curriculum 3

**Spring**
- EDSP 345 Special Populations in Schools 3
- EDSP 346 Special Populations in Schools Field Experience 3
- EDTP 408 Middle School Mathematics Methods 3
- EDTP 409 Middle School Science Methods 3

**Fall**
- EDTP 417 Student Teaching: Middle School 9
- EDTP 417 Capstone Student Teaching Seminar 3

**Hours**

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#### Year 2

**Fall**
- BIOL 363 Principles of Ecology 3
- EDTP 355 Assessment and Research 3
- EDTP 506 Public Schools in America: Understanding our Past to Envision our Future 3
- PHYS 111 Elements of Physics 4
- ENVS 301 Geology for Scientists and Engineers 3

**Spring**
- BIOL 243 Diversity of Life 3
- CHEM 201 General Chemistry I 3
- CHEM 207 Introduction to Chemical Analysis I 3
- CHEM 208 Introduction to Chemical Analysis II 3
- MATH 152 Mathematics for Elementary Education II 3
- General Education: Cardinal Core Natural Science (S) 3

**Fall**
- HIST 102 History of Civilizations II 3
- HIST 105 American History II 3
- MATH 152 Mathematics for Elementary Education II 3
- General Education: Cardinal Core Arts & Humanities - AH 3
- General Education: Cardinal Core Natural Science (S) 3

**Spring**
- BIOL 243 Diversity of Life 3
- CHEM 201 General Chemistry I 3
- CHEM 207 Introduction to Chemical Analysis I 3
- CHEM 208 Introduction to Chemical Analysis II 3
- MATH 152 Mathematics for Elementary Education II 3
- General Education: Cardinal Core Natural Science Lab (SL) 1

**Fall**
- BIOL 363 Principles of Ecology 3
- EDTP 355 Assessment and Research 3
- EDTP 506 Public Schools in America: Understanding our Past to Envision our Future 3
- PHYS 111 Elements of Physics 4
- ENVS 301 Geology for Scientists and Engineers 3

**Hours**

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#### Minimum Total Hours

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### Hours

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**Track in Mathematics (Grades 8-12)**

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<td>Human Development and Learning</td>
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**Track in Physics (Grades 8-12)**

**Year 1**

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<td>Introductory Laboratories I (Recommended Related/Supporting Course)</td>
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**Track in Science (Grades 5-9)**

| Year 2 | Fall | BIOL 240 | Unity of Life | 3 |
| Year 2 | Fall | BIOL 241 | Unity of Life Lab | 1 |
| Year 2 | Fall | EDP 107 | Human Development and Learning | 3 |
| Year 2 | Fall | PHYS 111 | Elements of Physics | 4 |
| Year 2 | Fall | General Education: Cardinal Core Arts and Humanities · AH | 3 |
| Year 2 | Hours | 16 |
| Year 2 | Spring | BIOL 242 | Diversity of Life | 3 |
| Year 2 | Spring | BIOL 243 | Diversity of Life Lab | 3 |
| Year 2 | Spring | CHEM 201 | General Chemistry I | 1 |
| Year 2 | Spring | CHEM 207 | Introduction to Chemical Analysis I | 3 |
| Year 2 | Spring | CHEM 208 | Introduction to Chemical Analysis II | 3 |
| Year 2 | Spring | General Elective | 3 |
| Year 2 | Spring | General Elective | 3 |
| Year 2 | Hours | 15 |

**Track in Social Studies (Grades 5-9)**

| Year 3 | Fall | EDTP 417 | Student Teaching: Middle School | 9 |
| Year 3 | Fall | EDP 477 | Capstone Student Teaching Seminar | 3 |
| Year 3 | Hours | 12 |
| Year 3 | Spring | BIOL 363 | Principles of Ecology | 3 |
| Year 3 | Spring | EDP 355 | Assessment and Research | 3 |
| Year 3 | Spring | EDP 506 | Public Schools in America: Understanding our Past to Envision our Future | 3 |
| Year 3 | Spring | PHYS 221 | Fundamentals of Physics I | 3 |
| Year 3 | Spring | PHYS 222 | Fundamentals of Physics Lab I | 3 |
| Year 3 | Spring | General Elective | 3 |
| Year 3 | Hours | 17 |

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<td>Human Development and Learning</td>
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| Minimum Total Hours | 120 |

**Track in Social Studies and English (Grades 5-9)**

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| Minimum Total Hours | 120 |
Track in Social Studies – Leading to Certification in Grades 5-9, and Learning and Behavior Disorders - Leading to Certification in Grades P-12

**Year 1**

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<td>Human Geography in a Changing World</td>
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**Minimum Total Hours** 124

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Track in Social Studies (Grades 8-12)

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**Minimum Total Hours** 124

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Track in Social Studies – Leading to Certification in Grades 8-12, and Learning and Behavior Disorders - Leading to Certification in Grades P-12

**Year 4**

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**Minimum Total Hours** 124

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Track in Social Studies (Grades 8-12)

**Year 4**

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**Minimum Total Hours** 124

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Track in Social Studies – Leading to Certification in Grades 8-12, and Learning and Behavior Disorders - Leading to Certification in Grades P-12

**Year 4**

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**Year 5**

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**Minimum Total Hours** 124

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Track in Social Studies (Grades 8-12)

**Year 4**

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| Minimum Total Hours | **120** |

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**Track in Spanish (Grades P-12)**

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<th>Hours</th>
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<tr>
<td>EDTP 107</td>
<td>Human Development and Learning</td>
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<tr>
<td>SPAN 301</td>
<td>Spanish Pronunciation</td>
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<tr>
<td>SPAN 305</td>
<td>Spanish Grammar in Context</td>
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<td>SPAN 310</td>
<td>Reading and Writing in Spanish</td>
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<tr>
<td>General Education: Cardinal Core Natural Sciences with Lab - B</td>
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<td><strong>Hours</strong></td>
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<tr>
<th>Spring</th>
<th>SPAN 311</th>
<th>Advanced Spanish through literature and film</th>
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<tr>
<td>SPAN 321</td>
<td>Communication and Conversation in Spanish</td>
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<td>General Education: Cardinal Core Arts &amp; Humanities Globa Diversity - AHD2</td>
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<td>General Education: Cardinal Core Social &amp; Behavioral Sciences Historical Perspective - SBH</td>
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<td>Supporting Course</td>
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<td>EDTP 301</td>
<td>General Methods</td>
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<td>EDTP 328</td>
<td>Building Learning Communities</td>
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<td>EDTP 330</td>
<td>Building Learning Communities Field Experience</td>
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<td>EDTP 420</td>
<td>Reading and Writing Across the Curriculum</td>
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<td>SPAN 401 or SPAN 402</td>
<td>Foundations of Spanish Civilization or Cultural and Literary Perspectives on Modern Spain</td>
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**Degree Audit Report**

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. Should you have questions about either report, please consult with your academic advisor.

**Flight Planner**

The Flight Planner tool is available for you to create a personalized Flight Plan to graduation. Advisors have access to review your Flight Planner and can help you adjust it to ensure you remain on track to graduate in a timely manner.

To create these reports:

a. Log into your ULink account.

b. Click on the Academic Progress tile.

c. Select the appropriate report.
i. To run a Degree Audit report, click on "View my Degree Audit."
ii. To create a What-if report, click on "Create a What-if Advisement Report."
iii. To run a Flight Planner report, click on "Use My Flight Planner."

Click here to run a Degree Audit report, create a What-if report, or run a Flight Planner report. ([https://ulink.louisville.edu](https://ulink.louisville.edu))

The Bachelor of Science in Middle/Secondary Education with the available tracks prepares students to meet the requirements for certification and/or licensure. If you plan to pursue professional licensure or certification you should first determine your state’s criteria for examination and licensure to see how/if our program meets those requirements prior to enrollment. We recommend that you also contact your state’s licensing board directly to verify that the requirements have not changed recently and to answer any questions especially those regarding additional requirements beyond the degree.

More information about certification or licensure is available at the following website: [https://louisville.edu/oapa/licensure-information](https://louisville.edu/oapa/licensure-information/) (you may search by school or by the name of the program then click on 'View Details' to display the information).

For programs with an online option, more information about certification or licensure is available here: [http://louisville.edu/online/About-Us](http://louisville.edu/online/About-Us/) (please scroll down near the bottom of the page and click on the licensing disclosures tab).