SECONDARY EDUCATION: MATHEMATICS, BS

for the degree of Bachelor of Science Major in Secondary Education

Not currently accepting applications Fall 2022

Curriculum Preparatory to Secondary School Teaching

This program prepares teachers for grades nine through twelve. A minimum of 120 semester hours is necessary for graduation.

Students pursuing teacher licensure programs in the College of Education (COE) must meet requirements in a series of sequential gateways. Included in the gateway requirements are successful completion of specified coursework, achievement of appropriate grade point averages, requirements for clinical experiences, and appropriate tests for the licensure area. Meeting all Gateway requirements leads to degree and licensure completion.

Students are admitted to Secondary Education as freshmen. In order to be recommended for licensure, candidates are required to maintain University of Illinois at Urbana-Champaign, cumulative, content area, and professional grade point averages of 2.5 (A=4.0). Grades in courses of C- or lower may not be used for State of Illinois licensure, endorsements, or approvals. Candidates should consult their adviser or the Council on Teacher Education for the list of courses used to compute these grades point averages.

For teacher education licensure requirements applicable to all curricula, see the Council on Teacher Education (www.cote.illinois.edu/). (http://www.cote.illinois.edu/)

Licensure requirements are subject to change without notice as a result of new mandates from the Illinois State Board of Education or the Illinois General Assembly.

Students in the Secondary Education licensure program must complete the Campus General Education Requirements, the courses for the Mathematics concentration, and the professional education coursework.

Six hours of ROTC upper level courses (300 level or above) can count toward the degree as free electives.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EDUC 101</td>
<td>Education Orientation Seminar</td>
<td>1</td>
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Composition I

Select one of the following groups:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>RHET 101 &amp; RHET 102</td>
<td>Principles of Writing and Principles of Research</td>
</tr>
<tr>
<td>CMN 111 &amp; CMN 112</td>
<td>Oral &amp; Written Comm I and Oral &amp; Written Comm II</td>
</tr>
<tr>
<td>ESL 111 &amp; ESL 112</td>
<td>Intro to Academic Writing I and Intro to Academic Writing II</td>
</tr>
<tr>
<td>ESL 115</td>
<td>Principles of Academic Writing</td>
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Advanced Composition

Natural Sciences and Technology

Life science

Physical science

Cultural Studies

Western/Comparative

Non-Western

US Minority

Social/Behavioral Sciences

Quantitative Reasoning

Quantitative Reasoning I
Quantitative Reasoning II (QRI or QRII)

Humanities/Arts

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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Language Other Than English

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td>0-12</td>
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Three years of one language other than English in high school or completion of the third semester of college level language.

Electives

Elective Courses (if needed to complete the 120 hour graduation requirement)

Six hours of ROTC upper level courses (300 level or above) can count toward the degree as free electives.

Professional Education

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<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
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<td>39</td>
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CI 401  Introductory Teaching in a Diverse Society  3
CI 403  Teaching a Diverse High School Student Population  3
CI 404  Teaching and Assessing Secondary School Students  3
CI 473  Disciplinary Literacy  2 or 3
EDPR 442  Educational Practice in Secondary Education  2 to 12
EDUC 201  Identity and Difference in Education  3
EDUC 202  Social Justice, School and Society  3
EPSY 201  Educational Psychology  3
EPSY 485  Assessing Student Performance  3 or 4
SPED 405  General Educator's Role in Special Education  3

Total minimum Hours for degree

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td></td>
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<td>120</td>
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Code  Title                                      Hours
CI 436  Technology and Mathematics Education  3 or 4
CI 491  History of Mathematics (History of Mathematics)  3 or 4
MATH 213  Basic Discrete Mathematics  3

These Calculus courses taken in sequence:

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MATH 220  Calculus
MATH 221  Calculus I
MATH 231  Calculus II
MATH 241  Calculus III 5

MATH 225/MATH 415 OR MATH 416  Introductory Matrix Theory  2

MATH 347  Fundamental Mathematics  3
MATH 348  Fundamental Mathematics-ACP  3

MATH 241 and 347 must be completed before taking advanced level math courses.

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MATH 402  Non Euclidean Geometry  3 or 4
MATH 403  Euclidean Geometry  3 or 4
MATH 405  Teacher's Course 6  3 or 4
MATH 453  Number Theory  3 or 4
STAT 200  Statistical Analysis  3

Total Hours

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37-45

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department office: Curriculum & Instruction
311 Education Building
1310 South Sixth
Champaign, IL 61820

phone: (217) 244-8286

department website: https://education.illinois.edu/ci

department faculty: Curriculum & Instruction Faculty

overview of college admissions & requirements: College of Education

college website: https://education.illinois.edu/