# SECONDARY EDUCATION: MATHEMATICS, BS 

for the degree of Bachelor of Science Major in Secondary Education, Mathematics Concentration

## The Secondary Education, BS prepares teachers for grades nine through

 12. 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 a cumulative grade point average of $2.5(\mathrm{~A}=4.0)$. Grades in courses of $\mathrm{C}-$ or lower may not be used for State of Illinois licensure, endorsements, or approvals.

For teacher education licensure requirements applicable to all curricula, see the Council on Teacher Education.

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.
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| Code | Title | Hours |
| :---: | :---: | :---: |
| EDUC 101 | Education Orientation Seminar | 1 |
| Code | Title | Hours |
| Composition I |  | 4-7 |
| Select one of the following groups: |  | 4 |
| RHET 101 <br> \& RHET 102 | Principles of Writing and Principles of Research |  |
| CMN 111 <br> \& CMN 112 | Oral \& Written Comm I and Oral \& Written Comm II |  |
| $\begin{aligned} & \text { ESL } 111 \\ & \text { \& ESL } 112 \end{aligned}$ | Intro to Academic Writing I and Intro to Academic Writing II |  |
| ESL 115 | Principles of Academic Writing |  |
| Advanced Composition |  | 3-4 |
| Natural Sciences and Technology |  | 6-8 |
| Life science |  |  |
| Physical science |  |  |
| Cultural Studies |  | 6-12 |
| Western/Comparative |  |  |
| Non-Weste |  |  |

US Minority
Social/Behavioral Sciences ..... 6-8
Quantitative Reasoning ..... 6-8
Quantitative Reasoning I
Quantitative Reasoning II (QRI or QRII)
Humanities/Arts ..... 6
Language Other Than English ..... 0-12
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 39

| Cl 401 | Introductory Teaching in a Diverse Society | 3 |
| :--- | :--- | ---: |
| CI 403 | Teaching a Diverse High School Student | 3 |
|  | Population |  |
| CI 404 | Teaching and Assessing Secondary School | 3 |
|  | Students | 2 or 3 |
| CI 473 | Disciplinary Literacy | 2 to |
| EDPR 442 | Educational Practice in Secondary | 12 |
|  | Education | 3 |
| EDUC 201 | Identity and Difference in Education | 3 |
| EDUC 202 | Social Justice, School and Society | 3 |
| EPSY 201 | Educational Psychology | 3 or 4 |
| EPSY 485 | Assessing Student Performance | 3 |
| SPED 405 | General Educator's Role in Special |  |

Total minimum Hours for degree 120

| Code | Title | Hours |
| :--- | :--- | ---: |
| CI 436 | Technology and Mathematics Education | 3 or 4 |
| CI 491 | History of Mathematics (History of <br> Mathematics) | 3 or 4 |
| MATH 213 | Basic Discrete Mathematics | 3 |
| These Calculus courses taken in sequence: |  |  |


| MATH 220 | Calculus |
| :---: | :--- |
| or MATH 221 | Calculus I |
| MATH 231 | Calculus II |
| MATH 241 | Calculus III $^{5}$ |
| MATH 225/ | Introductory Matrix Theory $_{\text {MATH 415 OR MATH }}$ |
| MATH 347 | Fundamental Mathematics |

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\text { or MATH } 348
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MATH 241 and 347 must be completed before taking advanced level math courses.

| MATH 402 | Non Euclidean Geometry |  |
| :--- | :--- | ---: |
| or 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 |


| or STAT $400 \quad$ Statistics and Probability I |  |
| :--- | :--- |
| Total Hours | $\mathbf{3 7 - 4 5}$ |


| Fourth Year |  |  |
| :--- | :--- | ---: |
| First Semester | Hours | Second Semester Hours |
| CI 403 | 3 CI 404 | 3 |
| EPSY 485 | 3 EDPR 442 | 12 |
| SPED 405 | 3 |  |
| Elective course | 3 |  |
| Elective course | 3 | $\mathbf{1 5}$ |

## Total Hours 120

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## College of Education

Education Building, 1310 S. Sixth Street, Champaign, IL 61820
College of Education website (https://education.illinois.edu/)
Department of Curriculum \& Instruction
306 Education Building
Department of Curriculum \& Instruction email (ci@education.illinois.edu)
(217) 244-8286

Department of Curriculum \& Instruction website (https://
education.illinois.edu/ci/)
Department of Curriculum \& Instruction faculty (https://
education.illinois.edu/faculty-finder/?dept=Curriculum\ Instruction)

## Office of Undergraduate Programs

110 Education Building
Education Academic Affairs email (saao@education.illinois.edu)
(217) 333-2800

Admissions \& Academics website (https://education.illinois.edu/ programs/undergrad/)
Student Academic Affairs website (https://education.illinois.edu/student-resources/undergraduate/undergraduate-advising-support/)

