

# MIDDLE GRADES EDUCATION: MATHEMATICS, BS

for the degree of Bachelor of Science in Middle Grades Education, Mathematics Concentration

This program prepares teachers for grades five through eight. 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 Middle Grades 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). Candidates should consult their adviser or the Council on Teacher Education for the list of courses used to compute these grade point averages. Candidates in teaching licensure programs must maintain a C- or better in ALL content and professional education coursework. For teacher education licensure 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 Middle Grades Education licensure program must complete the Campus General Education Requirements, the courses for one or more concentration (literacy, social sciences, science or math) and the professional education coursework.

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## Degree Requirements

Code	Title	Hours
<b>Orientation Seminar</b>		
EDUC 101	Education Orientation Seminar	1
<b>Total</b>		<b>1</b>

The following degree requirements also meet general education course requirements and must be selected from the campus general education course list. Some professional education courses and concentration courses can count towards the general education requirements.

Code	Title	Hours
<b>Composition I</b>		
Composition I		4
<b>Total</b>		<b>4</b>

Code	Title	Hours
<b>Advanced Composition</b>		
Advanced Composition		3-4
<b>Total</b>		<b>3-4</b>

Code	Title	Hours
<b>Natural Sciences &amp; Technology</b>		
If seeking the Science concentration, exclusions apply including, but not limited to: Horticulture, Dance and Urban Planning. Must be a science rubric. Consult with adviser for further information.		
Life science		3-4
Physical science		3-4
<b>Total</b>		<b>6-8</b>

Code	Title	Hours
<b>Cultural Studies</b>		
Western/Comparative		3-4
U.S. Minority		3-4
Non-Western		3-4
<b>Total</b>		<b>9-12</b>

Code	Title	Hours
<b>Social &amp; Behavioral Sciences</b>		
Social & Behavioral Sciences		6-8
<b>Total</b>		<b>6-8</b>
<b>Quantitative Reasoning</b>		
Quantitative Reasoning I		3-4
Quantitative Reasoning I or II		3-4
<b>Total</b>		<b>6-8</b>
<b>Humanities &amp; the Arts</b>		
Humanities & the Arts		6
<b>Total</b>		<b>6</b>
Total Hours of General Education Courses		37-46
<b>Language Other Than English</b>		
Three years of one language other than English in high school or completion of the third semester of college level language.		0-12
<b>Electives</b>		
Elective Hours (as needed to complete the 120 graduation requirement)		0-10
Six hours of ROTC upper level courses (300 level or above) can count toward the degree as free electives.		
<b>Concentrations</b>		
Students must complete 24-27 credit hours within one of the following concentrations: 1) Social Science, 2) Science, 3) Mathematics, or 4) Literacy. Subsequent tables outline the required courses to complete requirements in specific concentrations.		24-27
<b>Professional Education</b>		
CI 404	Teaching and Assessing Secondary School Students	3
CI 410	Middle School Instruction, Philosophy and Structures	3
CI 415	Language Varieties, Cultures and Learning	3
CI 467	Principles in Teaching Literature to Children and Youth	3
CI 471	Principles and Practices to Foster Independence in Reading	3
CI 476	Teaching Elementary and Middle Grade Language Arts	3
EDPR 250	School & Community Experiences (Section MG)	4
EDPR 442	Educational Practice in Secondary Education (Section MG)	12
EDUC 201 & EDUC 202	Identity and Difference in Education and Social Justice, School and Society (or program approved equivalent courses)	6
EPSY 201	Educational Psychology	3
EPSY 430	Early Adolescent Development	3
SPED 405	General Educator's Role in Special Education	3
<b>Total Hours</b>		<b>49</b>
<b>Total minimum hours for degree</b>		
		<b>120</b>

## Concentration Requirements

Some concentration courses can count towards the general education requirements. Courses in concentrations may not be allowed to count for more than two degree requirements. If you have questions, see your adviser.

Code	Title	Hours
<b>Mathematics Concentration</b>		
CI 401	Introductory Teaching in a Diverse Society ( Math Section)	3
CI 402	Teaching Diverse Middle Grade Students ( Math Section)	3
Note: Only CI 402, M (3 hours) counts toward ISBE content		
MATH 117	Elementary Mathematics	4
Theory of Numbers: Select one from the following:		3-4
MATH 103	Theory of Arithmetic	
MATH 453	Number Theory	
Geometry: Select one from the following:		3-4
MATH 119	Ideas in Geometry	
MATH 402	Non Euclidean Geometry	
MATH 403	Euclidean Geometry	
Statistics: Select one from the following:		3-4
STAT 100	Statistics	
STAT 200	Statistical Analysis	
STAT 400	Statistics and Probability I	
STAT 410	Statistics and Probability II	
Calculus: Select one from the following:		4-5
MATH 220	Calculus	
MATH 221	Calculus I	
Math Applications: Select one from the following:		3-4
CS 101	Intro Computing: Engrg & Sci	
CS 105	Intro Computing: Non-Tech	
CS 125	Introduction to Computer Science	
MATH 181	A Mathematical World	
MATH 213	Basic Discrete Mathematics	
MATH 231	Calculus II	
MATH 241	Calculus III	
MATH 405	Teacher's Course	
MATH 406	History of Calculus	
MATH 415	Applied Linear Algebra	
<b>Total: At least one course in the math content categories must be taken for more than the minimum hours to reach the ISBE requirement of 24 content hours.</b>		<b>27-31</b>

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**department website:** <https://education.illinois.edu/ci> (<http://education.illinois.edu/ci/>)

**department faculty:** Curriculum & Instruction Faculty (<https://education.illinois.edu/faculty-finder/ci/>)

**overview of college admissions & requirements:** College of Education (<https://education.illinois.edu/programs/undergrad/programs-degrees/middle-grades-education/>)

**college website:** <https://education.illinois.edu/> (<http://education.illinois.edu/>)