

MIDDLE GRADES EDUCATION: MATHEMATICS, BS

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

This **Middle Grades Education, BS** 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 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.

In order to be recommended for licensure, candidates are required to maintain a cumulative grade point average of 2.5 (A=4.0). Candidates in teaching licensure programs must maintain a C- or better in ALL content and professional education coursework. For teacher education licensure information 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.

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Degree Requirements

Code	Title	Hours
Orientation Seminar		
EDUC 101	Education Orientation Seminar	1
Total		1

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
Composition I		
Composition I		4
Total		4

Code	Title	Hours
Advanced Composition		
Advanced Composition		3-4
Total		3-4

Code	Title	Hours
Natural Sciences & Technology		

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
Total		6-8

Code	Title	Hours
Cultural Studies		

Western/Comparative		3-4
U.S. Minority		3-4
Non-Western		3-4
Total		9-12

Code	Title	Hours
Social & Behavioral Sciences		

Social & Behavioral Sciences		6-8
Total		6-8

Code	Title	Hours
Quantitative Reasoning		

Quantitative Reasoning I		3-4
Quantitative Reasoning I or II		3-4
Total		6-8

Code	Title	Hours
Humanities & the Arts		

Humanities & the Arts		6
Total		6

Code	Title	Hours
Total Hours of General Education Courses		37-46

Code	Title	Hours
Language Other Than English		

Three years of one language other than English in high school or completion of the third semester of college level language.

Code	Title	Hours
Electives		

Elective Hours (as needed to complete the 120 graduation requirement)

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

Code	Title	Hours
Concentrations		

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.

Code	Title	Hours
Professional Education		
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
Total Hours		49

Code	Title	Hours
Total minimum hours for degree		120

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
Mathematics Concentration		
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 415	Applied Linear Algebra	

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. **27-31**

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Sample Sequence

This sample sequence is intended to be used only as a guide for degree completion. All students should work individually with their academic advisors to decide the actual course selection and sequence that works best for them based on their academic preparation and goals. Enrichment programming such as study abroad, minors, internships, and so on may impact the structure of this four-year plan. Course availability is not guaranteed during the semester indicated in the sample sequence.

Students must fulfill their Language Other Than English requirement by successfully completing a third level of a language other than English. For more information, see the corresponding section on the Degree and General Education Requirements page (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

First Year

First Semester	Hours
EDUC 101	1
Composition I or General Education course	4
Language Other Than English (3rd level)	4
MATH 220 or 221	5
Total Hours	14

Total Hours 14

First Year

Second Semester	Hours
EDUC 201	3
Composition I or General Education course	3
Theory of Numbers, Geometry, Statistics, or Math Applications course	3
General Education course	3

General Education course	3
Total Hours	15

Total Hours 15

Second Year

First Semester	Hours
CI 415	3
EPSY 201	3
MATH 117	4
General Education course	3
Elective course	3
Total Hours	16

Total Hours 16

Second Year

Second Semester	Hours
EDUC 202	3
Theory of Numbers, Geometry, Statistics, or Math Applications course	3
General Education course	3
General Education course	3
Elective course	3
Total Hours	15

Total Hours 15

Third Year

First Semester	Hours
CI 410	3
CI 467	3
CI 471	3
EPSY 430	3
Elective course	3
Total Hours	15

Total Hours 15

Third Year

Second Semester	Hours
CI 401	3
Theory of Numbers, Geometry, Statistics, or Math Applications course	3
Theory of Numbers, Geometry, Statistics, or Math Applications course	3
Elective course	3
Elective course	3
Total Hours	15

Total Hours 15

Fourth Year

First Semester	Hours
CI 402	3
CI 476	3

EDPR 250	4
SPED 405	3
Elective course	2
Total Hours	15

Total Hours 15

Fourth Year

Second Semester	Hours
CI 404	3
EDPR 442	12
Total Hours	15

Total Hours 15

Total Hours: 120

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College of Education

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