

MIDDLE GRADES EDUCATION: SCIENCE, BS

for the degree of Bachelor of Science in Middle Grades Education, Science 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
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
Quantitative Reasoning		
Quantitative Reasoning I		3-4
Quantitative Reasoning I or II		3-4
Total		6-8
Humanities & the Arts		
Humanities & the Arts		6
Total		6
Total Hours of General Education Courses		37-46
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.		0-12
Electives		
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.		
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.		24-27
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
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
Science Concentration		
CI 402	Teaching Diverse Middle Grade Students (Science Section)	3
Physical Science: Select a minimum of one course from CHEM and one from PHYS		6-9
CHEM 101 or CHEM 102/103	Introductory Chemistry General Chemistry I	
CHEM 108	Chemistry, Everyday Phenomena	
CHEM 123	Teaching Elementary & Middle School Chemistry	
PHYS 101	College Physics: Mech & Heat	
PHYS 102	College Physics: E&M & Modern	
PHYS 123	Physics Made Easy	
PHYS 140	How Things Work	
PHYS 211	University Physics: Mechanics	
PHYS 212	University Physics: Elec & Mag	
Life Science: Complete 6 hours with a minimum of 3 hours from the foundations list.		6-8
Foundations:		
IB 100	Biology in Today's World	
IB 103	Introduction to Plant Biology	
IB 104	Animal Biology	
IB 150	Organismal & Evolutionary Biol	
MCB 100	Introductory Microbiology	
MCB 150	Molec & Cellular Basis of Life	
Applications:		
IB 105	Environmental Biology	
MCB 170	Society and the Brain	
MCB 180	Human Reproduction & Society	
Earth and Space Science: Select one from the following Atmospheric Sciences rubric and one from the following Geology rubric:		6-7
ATMS 100	Introduction to Meteorology	
ATMS 120	Severe and Hazardous Weather	
ATMS 201	General Physical Meteorology	
GEOL 107	Physical Geology	
GEOL 117	The Oceans	
GEOL 118	Natural Disasters	
Science Electives: To complete any remaining required hours, select additional courses from the courses listed above.		0-3
Total		24

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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/>)