

ELEMENTARY EDUCATION COMPREHENSIVE MAJOR: SCIENCE, TECHNOLOGY, ENGINEERING, ARTS, AND MATHEMATICS (STEAM) EMPHASIS

Program Requirements

The Diversity, Equity, and Inclusivity Emphasis requires the Elementary Education Core coursework in addition to 18 credits from the Diversity, Equity, and Inclusivity Emphasis courses listed below.

The Elementary Education Major requires students to complete all requirements of the Licensure Program, including 40 credits of Education (EDUC) coursework. The major also requires students to complete 40 credits of interdisciplinary content coursework.

Code	Title	Credits
Elementary Education Core Content:		
MATH 140	College Algebra (GT-MA1)	3
MATH 221	Foundations of Mathematics for Teaching I	3
MATH 222	Foundations of Mathematics for Teaching II	3
MATH 323	Foundations of Mathematics for Teaching III	3
SCI 110	Habitable Planet (with laboratory)	4
SCI 111	Nature of Science	1
SCI 120	Living Planet (with laboratory)	4
SCI 210	Dynamic Planet (with laboratory)	4
Two of the following:		6
ENG 150	Introduction to Literature (GT-AH2)	
ENG 205	Introduction to Creative Writing	
ENG 220	Grammar and the English Language	
ENG 250	Critical Approaches to Literature	
ENG 331	Literature and Ethnicity: Studies in:	
ENG 334	Poetry: Studies in:	
ENG 337	Women Writers	
ENG 352	Children's Literature	
Four of the following (courses must include at least 3 disciplines):		12
ECON 201	Macroeconomics (GT-SS1)	
ECON 202	Microeconomics	
ECON 215	Environmental Economics	
GEOG 120	Introduction to Human Geography (GT-SS2)	
GEOG 250	Geography of North America (GT-SS2)	
GEOG 351	Geography of Latin America and the Caribbean	
HIST 101	World History to 1500 (GT-HI1)	
HIST 102	World History Since 1500 (GT-HI1)	
HIST 126	U.S. History to 1865 (GT-HI1)	
HIST 127	U.S. History Since 1865 (GT-HI1)	
HIST 200	Historical Inquiry	
HIST 260	Latin American History (GT-HI1)	

HIST 327	Colorado History
HIST 349	History of the Hispanic Southwest
POLS 117	Introduction to Political Ideas (GT-SS1)
POLS 180	Introduction to American Politics (GT-SS1)
POLS 250	Politics of the Environment

Total Credits 43

Code Title Credits
Emphasis in Science, Technology, Engineering, Arts and Mathematics (STEAM)

Select six of the following: 18

ART 119	Foundation Drawing I
ART 171	Foundation Design: Two-Dimensional
ART 172	Foundation Design: Three-Dimensional
BIOL 130	Environmental Biology (GT-SC2)
COM 119	Introduction to Film
COM 121	Introduction to Theatre (GT-AH1)
COM 235	Introduction to Acting
COM 264	Introduction to Media Production I
COM 346	Multimedia Communication
COM 390	Media Production: Documentary
CS 190	Computer Science I
EDUC 492	INDEPENDENT STUDY
ENGR 131	Introduction to Engineering Design
MATH 260	Applied Linear Algebra
A 300-level MATH course	
PHYS 110	Introductory Astronomy (GT-SC2)
PHYS 120	Meteorology (GT-SC2)
PHYS 125	Energy and the Environment (GT-SC2)

Total Credits 18

For final year of Licensure coursework, please see the Elementary Licensure (<https://catalog.western.edu/undergraduate/programs/education/elementary-education-comprehensive-elementary-licensure/>) page.

Graduation Requirements

Undergraduate programs require a minimum of 120 semester credits for graduation. Of those 120 credits, 40 credits must be in upper-division courses (those marked 300 and above). Fifteen of these 40 upper-division credits must be earned in courses that are part of the standard or comprehensive major program being pursued.

Students are expected to review all graduation requirements, which can be found in the Western Undergraduate Catalog: Graduation Requirements (<https://catalog.western.edu/undergraduate/graduation-requirements/>).

Course	Title	Credits
Year One		
Fall		
EDUC 000	Education Gateway Course	0
HWTR 100	First Year Seminar	1
MATH 140	College Algebra (GT-MA1)	3
SCI 110	Habitable Planet (with laboratory)	4
ENG 102	Academic Writing (GT-CO1)	3
EDUC 102	Learning & Teaching	3

2 Elementary Education Comprehensive Major: Science, Technology, Engineering, Arts, and Mathematics (STEAM) Emphasis

Gen Ed	Social Sciences	3
Credits		17
Spring		
SCI 120	Living Planet (with laboratory)	4
COM 202	Academic Writing and Inquiry (GT-CO2)	3
Gen Ed	Arts & Humanities	3
Gen Ed	Social Sciences	3
Gen Ed	Social Sciences	3
Credits		16
Year Two		
Fall		
MATH 221	Foundations of Mathematics for Teaching I	3
EDUC 202	Education and Schooling in the U.S.	3
SCI 111	Nature of Science	1
Elective	ENG Elective	3
Elective	Specialization Elective	3
Gen Ed	Social Sciences	3
Credits		16
Spring		
MATH 222	Foundations of Mathematics for Teaching II	3
SCI 210	Dynamic Planet (with laboratory)	4
EDUC 210	Science Methods for Elementary Teachers	1
Elective	Specialization Elective	3
Gen Ed	Social Sciences	3
Credits		14
Year Three		
Fall		
MATH 323	Foundations of Mathematics for Teaching III	3
EDUC 326	Diversity & Education	3
Gen Ed	Arts & Humanities	3
Elective	Specialization Elective	3
Elective	Specialization Elective	3
Credits		15
Spring		
EDUC 340	Application of Pedagogy and Practice	3
Gen Ed	Arts & Humanities	3
Elective	ENG Elective	3
Elective	Specialization Elective	3
Elective	Specialization Elective (upper division)	3
Credits		15
Year Four		
Fall		
EDUC 405	Data-driven Instructional Practices	3
EDUC 428	Teaching English Learners	3
EDUC 600	Foundations of Literacy Development	3
EDUC 604	Learning Environments	3
EDUC 619	Elementary Student Teaching	3
Credits		15
Spring		
EDUC 601	Methods and Strategies of Effective Reading Instruction	3
EDUC 613	Methods and Strategies of Effective Mathematics Instruction	3
EDUC 617	Cognitive Academic Language Proficiency in the Content Area	3
EDUC 619	Elementary Student Teaching	3
Credits		12
Total Credits		120