

SECONDARY EDUCATION, BSED

Banner Code: E1-BSED-EDSC

Academic Advising

Phone: (703) 993-3696

Email: seed@gmu.edu

Website: <https://education.gmu.edu/secondary-education/>

The Bachelor of Science in Secondary Education (SEED) program provides students with the specialized knowledge, skills, and dispositions needed to meet the educational needs of students in grades 6-12.

The comprehensive program of study includes methods courses designed to prepare reflective teachers who are dedicated to knowing their students and their needs. Collaborations and partnerships with Northern Virginia schools ensure secondary education student complete relevant clinical experiences with experienced mentor teachers. Dedicated content area ensure graduates are prepared to employ innovative, research-based pedagogical practices in diverse school settings.

The Secondary Education program offers pathways to obtain an initial Virginia license (Collegiate Professional License) to teach biology, chemistry, computer science, earth sciences, English, history and social science. The Secondary Education program also offers a non-licensure pathway in Secondary Education Studies.

Admissions & Policies

Admissions

Four-Year Students

Students entering as freshmen with an interest in majoring in Secondary Education will apply to Mason and declare the Secondary Education, BSEd with a particular concentration. Prior to initial enrollment, students must meet with their academic advisor and the Associate Director of Pre-Education Advising and Outreach.

Transfer Students

Transfer students with an interest in majoring in the BSEd in Secondary Education and a specific concentration will either apply to Mason and declare the program (if an external to Mason applicant) or file a change of major form (if a current Mason student). Prior to initial enrollment, students must meet with their academic advisor and the Associate Director of Pre-Education Advising and Outreach.

Policies

Students in the BSEd in Secondary Education must maintain at least a 2.50 cumulative GPA and earn a C or better in their program core and concentration coursework.

In addition to coursework, students in Virginia Department of Education licensure pathways must complete additional licensure requirements to fulfill graduation requirements. See Degree Requirements.

Requirements

Degree Requirements

Total credits: 120

Mason Core

Code	Title	Credits
Foundation Requirements:		
	Written Communication (https://catalog.gmu.edu/mason-core/#written)	3
	Oral Communication (https://catalog.gmu.edu/mason-core/#oral)	3
	Quantitative Reasoning (https://catalog.gmu.edu/mason-core/#quantitative)	3
	Information Technology and Computing (https://catalog.gmu.edu/mason-core/#information-technology)	3
Exploration Requirements:		
	Arts (https://catalog.gmu.edu/mason-core/#arts)	3
	Global Contexts (https://catalog.gmu.edu/mason-core/#global-contexts)	3
	Literature (https://catalog.gmu.edu/mason-core/#literature)	3
	Natural Science (https://catalog.gmu.edu/mason-core/#natural-science)	7
	Social and Behavioral Sciences (https://catalog.gmu.edu/mason-core/#social-behavioral-science)	3
	Global History (https://catalog.gmu.edu/mason-core/#global-history)	3
	Just Societies (https://catalog.gmu.edu/mason-core/#just-societies)	
Integration Requirement:		
	Written Communication (https://catalog.gmu.edu/mason-core/#written-upper)	3
ENGH 302	Advanced Composition (Mason Core) (https://catalog.gmu.edu/mason-core/)	
	Writing Intensive (fulfilled by major requirements)	
	Apex (fulfilled by major requirements)	
Total Credits		37

Core Requirements

Code	Title	Credits
EDRD 419	Literacy Across the Disciplines	3
SEED 407	Assessing Learning and Teaching in the Secondary Classroom	3

SEED 408	Creating Advocacy with Adolescent Learners	3
SEED 409	Perspectives on Extraordinary Teaching	3
SEED 422	Foundations of Secondary Education	3
SEED 440	Human Development, Learning, and Teaching	3
SEED 477	Studying Teacher Impact on Student Learning (Mason Core) (https://catalog.gmu.edu/mason-core/)	3
SEED 478	Implementing Teacher Impact on Student Learning (Mason Core) (https://catalog.gmu.edu/mason-core/)	3
Total Credits		24

Concentration in Secondary Education - Biology (Licensure) (SECB)

Code	Title	Credits
SEED 473	Teaching Science in the Secondary School	3
SEED 483	Advanced Methods of Teaching Science in Secondary School	3
SEED 494	Internship: Secondary Education Science (Mason Core) (https://catalog.gmu.edu/mason-core/)	9
BIOL 102	Introductory Biology I-Survey of Biodiversity and Ecology (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	4
BIOL 103	Introductory Biology II-Survey of Cell and Molecular Biology (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	3
BIOL 105	Introductory Biology II Laboratory (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	1
BIOL 124	Human Anatomy and Physiology I	4
BIOL 213	Cell Structure and Function	3
BIOL 215	Cell Structure and Function Laboratory	1
BIOL 303	Animal Biology	4
BIOL 304	Plant Biology	4
BIOL 308	Foundations of Ecology and Evolution	3
BIOL 311	General Genetics	3
BIOL 313	General Genetics Laboratory	1
BIOL 338	Foundations of Ecology and Evolution Laboratory (Mason Core) (https://catalog.gmu.edu/mason-core/)	1
PHYS 103	Physics and Everyday Phenomena I (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	4
CHEM 211	General Chemistry I (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	3

CHEM 212	General Chemistry II (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	3
CHEM 213	General Chemistry Laboratory I (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	1
CHEM 214	General Chemistry Laboratory II (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	1
CHEM 310	Survey of Organic Chemistry	3
STAT 250	Introductory Statistics I (Mason Core) (https://catalog.gmu.edu/mason-core/) ³	3
3 credits of GEOL, CLIM, ASTR -prefixed courses or GGS 102 in consultation advisor ⁴		3
Total Credits		68

Note: Courses within this concentration count for 10 credits of Mason (<https://catalog.gmu.edu/mason-core/>) Core (<https://catalog.gmu.edu/mason-core/>).

¹ BIOL 102 BIOL 103, BIOL 105, and PHYS 103 satisfy, in part, the Mason Core Natural Science with lab requirement.

² CHEM 211, CHEM 212, CHEM 213, CHEM 214 satisfy, in part, the Mason Core Natural Science Overview requirement.

³ STAT 250 satisfies, in part, Mason Core Quantitative Reasoning requirement.

⁴ GGS 102 satisfies, in part, Mason Core Just Societies, Natural Science Overview, Encore: Sustainability requirement.

Licensure Requirements

Students enrolled in the licensure concentration (SECB) must successfully complete the following licensure requirements to complete the program. Unless noted, all requirements must be satisfied prior to applying for internship:

- Emergency First Aid, CPR and AED certification or training (prior to graduation)
- Praxis subject area test for Biology (5236) (<https://education.gmu.edu/teacher-preparation/test-requirements>)
- Content area coursework (<https://education.gmu.edu/teacher-preparation/content-area-review/requirements?form=58>) (completed and approved Content Area Review form)

Licensure testing and statutory requirements are determined by the Commonwealth of Virginia and may change at any time. If changes to these requirements occur, students must meet the current testing, statutory, and licensure requirements as set forth in the legal Code of Virginia.

Concentration in Secondary Education - Chemistry (Licensure) (SECC)

Code	Title	Credits
SEED 473	Teaching Science in the Secondary School	3
SEED 483	Advanced Methods of Teaching Science in Secondary School	3

SEED 494	Internship: Secondary Education Science (Mason Core) (https://catalog.gmu.edu/mason-core/)	9
PHYS 243	College Physics I (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	3
PHYS 244	College Physics I Lab (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	1
MATH 113	Analytic Geometry and Calculus I (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	4
MATH 114	Analytic Geometry and Calculus II	4
CHEM 211	General Chemistry I (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	3
CHEM 212	General Chemistry II (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	3
CHEM 213	General Chemistry Laboratory I (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	1
CHEM 214	General Chemistry Laboratory II (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	1
CHEM 313	Organic Chemistry I	3
CHEM 315	Organic Chemistry Lab I	2
CHEM 321	Quantitative Chemical Analysis	4
CHEM 331	Physical Chemistry I	3
CHEM 332	Physical Chemistry II	3
CHEM 336	Physical Chemistry Lab I (Mason Core) (https://catalog.gmu.edu/mason-core/)	2
CHEM 441	Properties and Bonding of Inorganic Compounds	3
Select 4 credits of CHEM-prefixed courses		4
CHEM 463 General Biochemistry I (recommended)		
Total Credits		59

¹ MATH 113 satisfies the Mason Core Quantitative Reasoning requirement.

² CHEM 211, CHEM 212, CHEM 213, CHEM 214, PHYS 243 and PHYS 244 satisfy, in part, the Mason Core Natural Science requirement.

Licensure Requirements

Students enrolled in the licensure concentration (SECC) must successfully complete the following licensure requirements to complete the program. Unless noted, all requirements must be satisfied prior to applying for internship:

- Emergency First Aid, CPR and AED certification or training (prior to graduation)
- Praxis subject area test for Chemistry (5246) (<https://education.gmu.edu/teacher-preparation/test-requirements>)

- Content area coursework (<https://education.gmu.edu/teacher-preparation/content-area-review/requirements?form=57>) (completed and approved Content Area Review form)

Licensure testing and statutory requirements are determined by the Commonwealth of Virginia and may change at any time. If changes to these requirements occur, students must meet the current testing, statutory, and licensure requirements as set forth in the legal Code of Virginia.

Concentration in Secondary Education - Computer Science (Licensure) (SECO)

Code	Title	Credits
SEED 466	Teaching Computer Science in Secondary School	3
SEED 476	Advanced Methods of Teaching Computer Science in the Secondary School	3
SEED 496	Internship: Secondary Education Computer Science (Mason Core) (https://catalog.gmu.edu/mason-core/)	9
ENGH 101	Composition (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	3
CS 112	Introduction to Computer Programming (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	4
CS 211	Object-Oriented Programming	3
CS 262	Introduction to Low-Level Programming	3
CS 310	Data Structures	3
CS 321	Software Engineering (Mason Core) (https://catalog.gmu.edu/mason-core/)	3
CS 330	Formal Methods and Models	3
CS 483	Analysis of Algorithms	3
MATH 113	Analytic Geometry and Calculus I (Mason Core) (https://catalog.gmu.edu/mason-core/) ³	4
MATH 114	Analytic Geometry and Calculus II	4
MATH 125	Discrete Mathematics I (Mason Core) (https://catalog.gmu.edu/mason-core/) ³	3
MATH 203	Linear Algebra	3
STAT 250	Introductory Statistics I (Mason Core) (https://catalog.gmu.edu/mason-core/)	3
or STAT 344	Probability and Statistics for Engineers and Scientists I	
Total Credits		57

¹ ENGH 101 satisfies the Mason Core Written Communication (lower-level) requirement.

² CS 112 satisfies the Mason Core Information Technology and Computing requirement.

³ MATH 113 and MATH 125 satisfy the Mason Core Quantitative Reasoning requirement.

Licensure Requirements

Students enrolled in the licensure concentration (SECO) must successfully complete the following licensure requirements to complete the program. Unless noted, all requirements must be satisfied prior to applying for internship:

- Emergency First Aid, CPR and AED certification or training (prior to graduation)
- Praxis subject area test for Computer Science (5652) (<https://education.gmu.edu/teacher-preparation/test-requirements>)
- Content area coursework (<https://education.gmu.edu/teacher-preparation/content-area-review/requirements?form=54>) (completed and approved Content Area Review form)

Licensure testing and statutory requirements are determined by the Commonwealth of Virginia and may change at any time. If changes to these requirements occur, students must meet the current testing, statutory, and licensure requirements as set forth in the legal Code of Virginia.

Concentration in Secondary Education - Earth Sciences (Licensure) (SECS)

Code	Title	Credits
SEED 473	Teaching Science in the Secondary School	3
SEED 483	Advanced Methods of Teaching Science in Secondary School	3
SEED 494	Internship: Secondary Education Science (Mason Core) (https://catalog.gmu.edu/mason-core/)	9
ASTR 111	The Solar System (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	3
ASTR 112	The Solar System Lab (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	1
GEOL 101	Physical Geology (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	3
GEOL 102	Historical Geology (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	3
GEOL 103	Physical Geology Lab (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	1
GEOL 104	Historical Geology Laboratory (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	1
GEOL 120	The Changing Ocean (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	3
GEOL 121	The Changing Ocean Laboratory (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	1
GGG 309	Introduction to Weather and Climate	3
Earth Science Electives		14
Select 14 credits from the following:		

ASTR 113	Stars, Galaxies, and the Universe (Mason Core) (https://catalog.gmu.edu/mason-core/)
ASTR 114	Stars, Galaxies, and the Universe Lab (Mason Core) (https://catalog.gmu.edu/mason-core/)
GEOL 305	Environmental Geology (Mason Core) (https://catalog.gmu.edu/mason-core/)
GEOL 312	Invertebrate Paleontology
GEOL 313	Hydrogeology
GEOL 320	Resource Geology
GEOL 325	Planetary Geology
GEOL 332	Paleoclimatology
GEOL 334	Vertebrate Paleontology (Mason Core) (https://catalog.gmu.edu/mason-core/)
GEOL 363	Coastal Morphology and Processes
GGG 122	Dynamic Geosphere and Ecosphere
GGG 302	Global Environmental Hazards
CLIM 312	Physical Climatology
GGG 314 or CLIM 314	Severe and Extreme Weather
GGG 321	Biogeography
Total Credits	

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¹ ASTR 111, ASTR 112, GEOL 101, GEOL 102, GEOL 103, GEOL 104, GEOL 120, and GEOL 121 satisfy, in part, the Mason Core Natural Science requirement.

Licensure Requirements

Students enrolled in the licensure concentration (SECS) must successfully complete the following licensure requirements to complete the program. Unless noted, all requirements must be satisfied prior to applying for internship:

- Emergency First Aid, CPR and AED certification or training (prior to graduation)
- Praxis subject area test Earth Science (5572) (<https://education.gmu.edu/teacher-preparation/test-requirements>)
- Content area coursework (<https://education.gmu.edu/teacher-preparation/content-area-review/requirements?form=56>) (completed and approved Content Area Review form)

Licensure testing and statutory requirements are determined by the Commonwealth of Virginia and may change at any time. If changes to these requirements occur, students must meet the current testing, statutory, and licensure requirements as set forth in the legal Code of Virginia.

Concentration in Secondary Education - English (Licensure) (SECE)

Code	Title	Credits
SEED 469	Teaching English in Secondary School	3
SEED 479	Advanced Methods of Teaching English in the Secondary School	3

SEED 492	Internship: Secondary Education English (Mason Core) (https://catalog.gmu.edu/mason-core/)	9
ENGH 101	Composition (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	3
ENGH 302	Advanced Composition (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	3
COMM 100	Public Speaking (Mason Core) (https://catalog.gmu.edu/mason-core/) ³	3
or COMM 101	Fundamentals of Communication (Mason Core) (https://catalog.gmu.edu/mason-core/)	
or INTS 202	Public Speaking and Critical Thinking Skills (Mason Core) (https://catalog.gmu.edu/mason-core/)	
ENGH 308	Theory and Inquiry	3
LING 306	Introduction to Linguistic Analysis (Mason Core) (https://catalog.gmu.edu/mason-core/) ⁴	3
LING 322	English Grammar and Pedagogy	3
Select one course from the following:		3
ENGH 320	Literature of the Middle Ages	
ENGH 321	English Poetry and Prose of the 16th Century	
ENGH 322	Introduction to Shakespeare	
ENGH 323	Studies in Shakespeare	
ENGH 324	English Renaissance Drama	
ENGH 325	English Poetry and Prose of the 17th Century	
ENGH 330	Augustan Age: 1660-1745	
ENGH 331	Age of Sensibility: 1745-1800	
ENGH 333	British Novel of the 18th Century	
ENGH 334	British Poetry of the Romantic Period	
ENGH 335	Prose and Poetry of the Victorian Period	
ENGH 336	British Novel of the 19th Century	
Select one course from the following:		3
ENGH 340	Early American Literature	
ENGH 341	Literature of the American Renaissance	
ENGH 342	Post-Civil War American Literature, 1865-1920	
ENGH 343	Development of the American Novel to 1914	
ENGH 348	Beginnings of African American Literature Through 1865	
ENGH 349	African American Literature: Reconstruction to 1903	
ENGH 350	African American Literature Through 1946	
ENGH 351	Contemporary African American Literature	
ENGH 352	Topics in Ethnic American Literature	
ENGH 355	Contemporary Fiction	
ENGH 356	Contemporary Poetry	

Select one course from the following or a special topics course selected with advisor approval: 3

ENGH 360	Continental Fiction, 1770-1880
ENGH 361	Continental Fiction, 1880-1950
ENGH 362	Global Voices (Mason Core) (https://catalog.gmu.edu/mason-core/)
ENGH 363	Postcolonial Literature
ENGH 366	The Idea of a World Literature (Mason Core) (https://catalog.gmu.edu/mason-core/)
ENGH 367	World Literatures in English

English Electives 9

SEED 370	Young Adult Literature in Multicultural Settings (Mason Core) (https://catalog.gmu.edu/mason-core/) ⁵
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Select 6 credits of ENGH-prefixed courses

Total Credits 51

¹ ENGH 101 satisfies the Mason Core Written Communication (lower-level) requirement.

² ENGH 302 satisfies the Mason Core Written Communication (upper-level) requirement.

³ COMM 100, COMM 101 and INTS 202 satisfy the Mason Core Oral Communication requirement.

⁴ LING 306 satisfies the Mason Core Social and Behavioral Sciences requirement.

⁵ SEED 370 satisfies the Mason Core Literature requirement.

Licensure Requirements

Students enrolled in the licensure concentration (SECE) must successfully complete the following licensure requirements to complete the program. Unless noted, all requirements must be satisfied prior to applying for internship:

- Emergency First Aid, CPR and AED certification or training (prior to graduation)
- Praxis subject area test for English (5038) (<https://education.gmu.edu/teacher-preparation/test-requirements>)
- Content area coursework (<https://education.gmu.edu/teacher-preparation/content-area-review/requirements?form=45>) (completed and approved Content Area Review form)

Licensure testing and statutory requirements are determined by the Commonwealth of Virginia and may change at any time. If changes to these requirements occur, students must meet the current testing, statutory, and licensure requirements as set forth in the legal Code of Virginia.

Concentration in Secondary Education - History and Social Science (Licensure) (SECH)

Code	Title	Credits
SEED 367	Teaching History and Social Science in the Secondary School	3
SEED 405	Teaching and Learning Difficult Histories	3

SEED 467	Advanced Methods of Teaching History and Social Science in the Secondary School	3
SEED 495	Internship: Secondary Education History and Social Science	9
ECON 196	Special Topics in Economics ³	3
GGG 102	Physical Geography (Mason Core) (https://catalog.gmu.edu/mason-core/) ²	3
GGG 103	Human Geography (Mason Core) (https://catalog.gmu.edu/mason-core/) ¹	3
GOVT 103	Introduction to American Government (Mason Core) (https://catalog.gmu.edu/mason-core/)	3
RELI 211	Introduction to Religions of the "West" (Mason Core) (https://catalog.gmu.edu/mason-core/)	3
or RELI 212	Introduction to Religions of Asia (Mason Core) (https://catalog.gmu.edu/mason-core/)	
Select 3 credits of GOVT-prefixed courses		3
HIST 121	Formation of the American Republic (Mason Core) (https://catalog.gmu.edu/mason-core/)	3
HIST 122	Development of Modern America (Mason Core) (https://catalog.gmu.edu/mason-core/)	3
HIST 125	Introduction to Global History (Mason Core) (https://catalog.gmu.edu/mason-core/)	3
HIST 391	History of Virginia to 1800	3
Select 3 credits of Non-US history		3
Total Credits		51

¹ GGS 103 satisfy the Mason Core Social and Behavioral Sciences requirement.

² GGS 102 satisfies, in part, the Mason Core Natural Sciences requirement.

³ Must be ECON 196 Economics for Educators course.

Licensure Requirements

Students enrolled in the licensure concentration (SECH) must successfully complete the following licensure requirements to complete the program. Unless noted, all requirements must be satisfied prior to applying for internship:

- Emergency First Aid, CPR and AED certification or training (prior to graduation)
- Praxis subject area test for Social Studies (5581) (<https://catalog.gmu.edu/programadmin/?key=1054>)
- Content area coursework (<https://education.gmu.edu/teacher-preparation/content-area-review/requirements?form=52>) (completed and approved Content Area Review form)

Licensure testing and statutory requirements are determined by the Commonwealth of Virginia and may change at any time. If changes to these requirements occur, students must meet the

current testing, statutory, and licensure requirements as set forth in the legal Code of Virginia.

Concentration in Secondary Education Studies (Non-Licensure) (SENL)

Code	Title	Credits
INTS 420	College to Career Skills	3
INTS 490	Internship	6
Select 6 credits from the following:		6
SEED 367	Teaching History and Social Science in the Secondary School	
SEED 372	Teaching Mathematics in the Secondary School	
SEED 466	Teaching Computer Science in Secondary School	
SEED 467	Advanced Methods of Teaching History and Social Science in the Secondary School	
SEED 469	Teaching English in Secondary School	
SEED 472	Advanced Methods for Teaching Mathematics in the Secondary School	
SEED 473	Teaching Science in the Secondary School	
SEED 476	Advanced Methods of Teaching Computer Science in the Secondary School	
SEED 479	Advanced Methods of Teaching English in the Secondary School	
SEED 483	Advanced Methods of Teaching Science in Secondary School	

Educational Electives

Select 25-26 credits from the following or other education-related classes approved by advisor: 25-26

EDAT 421	Augmentative Communication
EDAT 422	Assistive Technology for Individuals with Sensory Impairments
EDAT 423	Accessibility and Input Modifications
EDEP 110	Academic Success Through Self-Regulated Learning (Mason Core) (https://catalog.gmu.edu/mason-core/)
EDEP 310	Teaching Students How to Learn
EDEP 350	Perspectives on Achievement Motivation (Mason Core) (https://catalog.gmu.edu/mason-core/)
EDSE 201	Introduction to Special Education
EDSE 203	Disability in American Culture (Mason Core) (https://catalog.gmu.edu/mason-core/)
EDSE 204	Disability in Global Contexts (Mason Core) (https://catalog.gmu.edu/mason-core/)
EDSE 230	Introduction to Autism Spectrum Disorders (Mason Core) (https://catalog.gmu.edu/mason-core/)

EDSE 241	Characteristics of Students with Disabilities who Access the General Curriculum
EDSE 311	Characteristics of Students with Blindness and Visual Impairments
EDSE 341	Language Acquisition and Reading and Writing Development
EDSE 352	Assessment
EDSE 353	Individualized Behavior Supports
EDSE 354	Consultation, Collaboration, and IEP Development
EDSE 361	Characteristics of Students with Severe Disabilities
EDSE 362	Communication and Severe Disabilities
EDSE 412	Braille Code
EDSE 413	Medical and Educational Implications of Blindness and Visual Impairments
EDSE 414	Orientation and Mobility for Students with Blindness and Visual Impairments
EDSE 417	Teaching Methods for Students with Blindness and Visual Impairments
EDSE 418	Curriculum and Assessment of Students with Blindness and Visual Impairments
EDSE 452	Intersectionality and Disability (Mason Core) (https://catalog.gmu.edu/mason-core/)
EDSE 469	Individualized Supports and Specialized Care of Students with Severe Disabilities
HEAL 110	Personal Health
HEAL 200	School and Community Safety
HEAL 250	Introduction to School Health
INTS 322	Teacher: A Historical Perspective
INTS 436	Social Justice Education (Mason Core) (https://catalog.gmu.edu/mason-core/)
KINE 260	Behavior Modification for Physical Activity
KINE 310	Exercise Physiology I
PHED 202	Teaching Skillful Movement
PHED 273	Net and Target Games
PHED 274	Dance and Educational Gymnastics
PHED 275	Field and Invasion Games
PHED 330	Health and Physical Activity for Classroom Teachers
SEED 370	Young Adult Literature in Multicultural Settings (Mason Core) (https://catalog.gmu.edu/mason-core/)
SEED 405	Teaching and Learning Difficult Histories

SEED 410	Secondary Education in International Contexts
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Total Credits **40-41**

Note: Students are encouraged to pursue a minor to partially fulfill elective requirements

Electives

Code	Title	Credits
Choose 1-23 credits from the university catalog to satisfy the degree/program requirement of 120 credits		1-23

4-Year Plan

Bachelor of Science in Education in Secondary Education Sample Plan of Study

The sample plans below are a recommended sequencing of courses for Secondary Education 6-12 (Licensure) based on specific endorsement areas, pre-requisites and scheduling. This may not fit every student's needs and is a guideline, not a requirement. Students should confirm major requirements with their academic advisor and with Patriot Connect Degree Audit to ensure they enroll in the proper courses and are on track to graduate.

Secondary Education - Biology Licensure

First Year

Fall Semester	Credits	Spring Semester	Credits
BIOL 102	4	BIOL 103	3
EDUC 200	3	BIOL 105	1
ENGH 101	3	COMM 101	3
Information Technology and Computing Course	3	GGs 101	3
Elective (UNIV 100 recommended)	1	HIST 125	3
		STAT 250	3
	14		16

Second Year

Fall Semester	Credits	Spring Semester	Credits
BIOL 124	4	BIOL 303	4
BIOL 213	3	BIOL 304	4
BIOL 215	1	ENGH 302	3
Literature Course	3	PHYS 103	4
BIOL Elective	3		
	14		15

Third Year

Fall Semester	Credits	Spring Semester	Credits
BIOL 311	3	BIOL 308	3
BIOL 313	1	BIOL 338	1
CHEM 211	3	CHEM 212	3
CHEM 213	1	CHEM 214	1
SEED 408	3	SEED 440	3
SEED 409	3	SEED 473	3
SEED 422	3		
	17		14

Fourth Year

Fall Semester	Credits	Spring Semester	Credits
CHEM 310	3	Arts Course	3
EDRD 419	3	SEED 478	3
SEED 407	3	SEED 494	9
SEED 477	3		
SEED 483	3		
	15		15

Total Credits 120**Secondary Education - Chemistry Licensure****First Year**

Fall Semester	Credits	Spring Semester	Credits
CHEM 211	3	CHEM 212	3
CHEM 213	1	CHEM 214	1
ENGH 101	3	COMM 101	3
MATH 113	4	GGG 101	3
Information Technology and Computing	3	PHYS 243	3
Elective (UNIV 100 recommended)	1	PHYS 244	1
	15		14

Second Year

Fall Semester	Credits	Spring Semester	Credits
Arts Course	3	CHEM 331	3
Literature Course	3	CHEM 336	2
CHEM 313	3	EDUC 200	3
CHEM 315	2	ENGH 302	3
MATH 114	4	HIST 125	3
	15		14

Third Year

Fall Semester	Credits	Spring Semester	Credits
CHEM 332	3	CHEM 321	4
CHEM 463	4	CHEM 441	3
SEED 408	3	Elective	3
SEED 409	3	SEED 440	3
SEED 422	3	SEED 473	3
	16		16

Fourth Year

Fall Semester	Credits	Spring Semester	Credits
EDRD 419	3	SEED 478	3
SEED 407	3	SEED 494	9
SEED 477	3	Elective	3
SEED 483	3		
Elective	3		
	15		15

Total Credits 120**Secondary Education - Computer Science Licensure****First Year**

Fall Semester	Credits	Spring Semester	Credits
CS 112	4	COMM 101	3
ENGH 101	3	CS 211	3
MATH 113	4	MATH 125	3
Natural Science without Lab	3	Natural Science with Lab	4
Elective (UNIV 100 recommended)	1	Elective	1
	15		14

Second Year

Fall Semester	Credits	Spring Semester	Credits
Arts Course	3	CS 262	3
Literature Course	3	EDUC 200	3
GGG 101	3	ENGH 302	3
HIST 125	3	MATH 203	3
MATH 114	4	STAT 250 or 344	3
	16		15

Third Year

Fall Semester	Credits	Spring Semester	Credits
CS 310	3	CS 321	3
CS 330	3	CS 483	3
SEED 408	3	SEED 440	3
SEED 409	3	SEED 466	3
SEED 422	3	Elective	3
15		15	

Fourth Year

Fall Semester	Credits	Spring Semester	Credits
EDRD 419	3	SEED 478	3
SEED 407	3	SEED 496	9
SEED 477	3	Elective	3
SEED 479	3		
Elective	3		
15		15	

Total Credits 120**Secondary Education - Earth Science Licensure****First Year**

Fall Semester	Credits	Spring Semester	Credits
ENGH 101	3	COMM 101	3
GEOL 101	3	GEOL 102	3
GEOL 103	1	GEOL 104	1
MATH 106 or EDRS 220	3	GGG 101	3
Information Technology and Computing	3	HIST 125	3
Elective (UNIV 100 recommended)	1	Elective	3
14		16	

Second Year

Fall Semester	Credits	Spring Semester	Credits
Arts Course	3	EDUC 200	3
Literature Course	3	ENGH 302	3
ASTR 111	3	GGG 309	3
ASTR 112	1	Content Selective	3
Content Selective	3	Elective	4

Content Selective	1
14	16

Third Year

Fall Semester	Credits	Spring Semester	Credits
GEOL 120	3	SEED 440	3
GEOL 121	1	SEED 473	3
SEED 408	3	Content Selective	3
SEED 409	3	Content Selective	3
SEED 422	3	Elective	3
Elective	2		
15		15	

Fourth Year

Fall Semester	Credits	Spring Semester	Credits
EDRD 419	3	SEED 478	3
SEED 407	3	SEED 494	9
SEED 477	3	Elective	3
SEED 483	3		
Elective	3		
15		15	

Total Credits 120**Secondary Education - English Licensure****First Year**

Fall Semester	Credits	Spring Semester	Credits
EDUC 200	3	COMM 101	3
ENGH 101	3	Natural Science without Lab	3
Natural Science with Lab	4	Global History (HIST 125 recommended)	3
Elective (UNIV 100 recommended)	1	ENGH Elective	3
Information Technology and Computing	3	Global Contexts	3
14		15	

Second Year

Fall Semester	Credits	Spring Semester	Credits
Arts Course	3	ENGH 302	3
MATH 106 or EDRS 220	3	LING 322	3

SEED 370	3 ENGH Selective	3
ENGH Elective	3 ENGH Selective	3
Electives	4 Elective	3
16		15

Third Year

Fall Semester	Credits	Spring Semester	Credits
LING 323	3	SEED 440	3
SEED 408	3	SEED 469	3
SEED 409	3	ENGH Selective	3
SEED 422	3	Elective	3
Elective	3	Elective	3
15		15	

Fourth Year

Fall Semester	Credits	Spring Semester	Credits
EDRD 419	3	SEED 478	3
SEED 407	3	SEED 492	9
SEED 477	3	Elective	3
SEED 479	3		
Elective	3		
15		15	

Total Credits 120**Secondary Education - History and Social Science Licensure****First Year**

Fall Semester	Credits	Spring Semester	Credits
ENGH 101	3	COMM 101	3
MATH 106 or EDRS 220	3	GGS 101	3
Natural Science with Lab	4	GGS 102	3
Information Technology and Computing	3	HIST 125	3
Elective (UNIV 100 recommended)	1	Electives	4
14		16	

Second Year

Fall Semester	Credits	Spring Semester	Credits
Arts Course	3	ECON 196	3

Literature Course	3	ENGH 302	3
GGS 103	3	GOVT 103	3
HIST 121	3	HIST 122	3
Elective (EDUC 200 recommended)	3	Non-US History Elective	3
15		15	

Third Year

Fall Semester	Credits	Spring Semester	Credits
RELI 211 or 212	3	HIST 391	3
SEED 408	3	SEED 367	3
SEED 409	3	SEED 405	3
SEED 422	3	SEED 440	3
Government Elective	3	Elective	3
15		15	

Fourth Year

Fall Semester	Credits	Spring Semester	Credits
EDRD 419	3	SEED 478	3
SEED 407	3	SEED 495	9
SEED 467	3	Elective	3
SEED 477	3		
Elective	3		
15		15	

Total Credits 120