

Requirements for ESS B.S. Degree – Geoscience Option

Department of Earth and Space Sciences

www.ess.washington.edu

General Education Requirements: College of the Environment (CoEnv)

		<i>Notes</i>
1. English Composition (C)	5cr	_____
2. Additional Writing	10cr	_____
3. Quantitative & Symbolic Reasoning (Q/SR)	10cr	_____
4. Diversity (DIV)	3cr	_____
5. Areas of Knowledge (AoK)		
Visual, Literary, and Performing Arts (VLPA)	10cr	_____
Individuals and Societies (I&S)	20cr	_____
The Natural World (NW)	20cr	_____
Additional AoKs	10cr	_____

Note: 10 credits of I&S and 10 credits of NW must be outside the major (i.e., not a major prefix and no overlap with major)

Major Requirements: Department of Earth and Space Sciences (ESS)

Supporting Science Courses (32-35 credits)

		<i>Notes</i>
CHEM 142	5cr	_____
MATH 124, 125	10cr	_____
One of MATH 126, ESS 310, STAT 290, STAT 311, STAT 390, or QSCI 381	4-5cr	_____
PHYS 114/117 or 121; 115/118 or 122	10cr	_____
And one from this list:	3-5cr	_____
AMATH 351; MATH 307; MATH 308; PHYS 116/119 or 123; CHEM 152		

ESS Core Courses (44-46 credits)

		Prerequisites		
1. One course required.				
ESS 201 Earth's Climate System	SPR	MATH 124, 134, or QSCI 91	3cr	_____
ESS 202 Earthquakes	WIN	None	5cr	_____
ESS 203 Glaciers and Global Change	WIN	None	5cr	_____
ESS 204 Mass Extinctions	SPR	ESS 100	3-4cr	_____
ESS 205 Access to Space	SPR	None	5cr	_____
ESS 230 Rivers and Beaches	AUT	None	3-5cr	_____
2. Three courses required.*				
ESS 211 Physical Processes of Earth	AUT	MATH 124, 134, or QSCI 291; PHYS 114/117 or 121	5cr	_____
ESS 212 Plate Tectonics & Materials of Earth	WIN	CHEM 110, passing score on Gen Chem placement exam, or 1 on Chem AP test. Pre-calculus recommended.	5cr	_____
ESS 213 Evolution of Earth	SPR	ESS 210, 211, or 212	5cr	_____
3. Two courses required.*				
ESS 311 Geomechanics	WIN	MATH 125, 135, or QSCI 292; PHYS 114/117 or 121; ESS 211; MATLAB experience recommended	5cr	_____
ESS 312 Earth Materials	SPR	CHEM 142 or 145; ESS 212; ESS 211 and 213 recommended	5cr	_____
ESS 313 Geobiology	AUT	CHEM 142 or 145; ESS 213	5cr	_____
ESS 314 Geophysics	AUT	MATH 126, 136, or ESS 310; PHYS 115/118 or 122	5cr	_____
ESS 316 Geochemistry	SPR	CHEM 142 or 145; MATH 125, 135, or QSCI 292; ESS 212	5cr	_____
4. One course required				
ESS 400 Field Geology	SUM	ESS 211-213; one of ESS 311-314 or 316	12cr	_____
ESS 401 Field Geology with GIS	SUM	ESS 211-213; one of ESS 311-314 or 316; ESS 420	12cr	_____

5. ESS 418 Geoscience Communication	WIN, SPR	Two of ESS 201, 205, or 211-213	4cr
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ESS Elective Courses (18 credits)

ESS courses numbered 402 to 488 (excluding ESS 418) or approved ESS 490 courses (see Time Schedule). Extra course from ESS 311-314, 316 not required above may also apply here.

	Credits		Credits		Credits
ESS _____	_____	ESS _____	_____	ESS _____	_____
ESS _____	_____	ESS _____	_____	ESS _____	_____

*2.0 grade required in prerequisites for all ESS core courses. See individual course prerequisites for additional grade requirements.

Note: Minimum 2.00 cumulative GPA in all ESS-prefixed courses required. Grade requirements for students who declared the ESS major prior to Summer 2018 may differ; please see ESS Advising if you have any questions.

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