

Requirements for ESS B.S. Degree – PHYSICS Option

Department of Earth and Space Sciences

www.ess.washington.edu

Note: The average grade in PHYS 121, 122, and 123 for students who successfully complete the ESS Physics BS is a 2.8. Students who have not earned a 2.8 in the introductory physics courses are not prohibited from declaring the ESS Physics BS, but are strongly encouraged to meet with ESS Advising to discuss whether another ESS degree option would meet their goals.

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 (50-53 credits)

		<i>Notes</i>
CHEM 142	5cr	_____
MATH 124, 125	10cr	_____
MATH 126, 308, 324 or MATH 136, 324	8-11cr	_____
PHYS 121, 122, 123	15cr	_____
PHYS 227	AUT / SPR	4cr
PHYS 228	WIN / SUM	4cr
PHYS 321	AUT / SPR	4cr
PHYS 322	WIN / SUM	4cr

ESS Core Courses (29 credits)

		Prerequisites		
1. Three courses required.*				
ESS 205 Access to Space	SPR	No prerequisites	5cr	_____
ESS 211 Physical Process Earth	AUT	MATH 124, 134, or QSCI 291; PHYS 114/117 or 121	5cr	_____
ESS 212 Earth Materials/Processes	WIN	CHEM 142 or 145	5cr	_____
ESS 213 Evolution of Earth	SPR	ESS 210, 211, or 212	5cr	_____
2. Two courses required.*				
ESS 311 Geomechanics	WIN	MATH 125, 135, or QSCI 292; PHYS 114/117 or 121; ESS 211	5cr	_____
ESS 312 Geochemistry	SPR	CHEM 142 or 145; MATH 125, 135, or QSCI 292; ESS 212	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	_____
3. ESS 418 Geoscience Communication	WIN, SPR	English Composition (5cr); two of ESS 201, 211-213	4cr	_____

ESS Elective Courses (15-18 credits)

ESS courses numbered 400 to 488 (excluding ESS 418) or approved ESS 490 courses (see Time Schedule). Extra courses from ESS 311-314, 316 not required above may also apply here.

Credits		Credits	
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.