College of Science
THE UNIVERSITY OF UTAH

B.S. in Earth and Environmental Science
Geoscience Emphasis

IMPORTANT INFORMATION TO REMEMBER

Use this sheet with your Degree Audit to schedule your courses in a logical and functional sequence. YOU are responsible for ensuring that ALL requirements are met for the major AND that you have fulfilled ALL university requirements. Pay special attention when repeating courses and class time conflicts. Students must complete a minimum of 40 credit hours of upper division (3000+ level courses) and a minimum of 120 overall credit hours. Up to date information can be found in the catalog: https://catalog.utah.edu/programs/EESBS

General Education Requirements:

- ❑ AI
- ❑ WRTG 1010
- ❑ WRTG 2010
- ❑ BF
- ❑ HF
- ❑ FF
- ❑ LS (GEO 1120)
- ❑ PS (PHYS 2210)

Bachelor Degree Requirements:

- ❑ IR
- ❑ DV
- ❑ QI (GEO 3100)
- ❑ CW (GEO 4500)

Earth and Environmental Science Core			
	CHEM 1210	General Chem 1 (F/S/Su)	4
	CHEM 1215	General Chem 1 Lab (F/S/Su)	1
	CHEM 1220	General Chemistry 2 (F/S/Su)	4
	CHEM 1225	General Chem 2 Lab (F/S)	1
	PHYS 2210	Phys for Sci & Eng 1 (F/S/Su)	4
	PHYS 2220	Phys for Sci & Eng 2 (F/S/Su)	4
	MATH 1210	Calculus I (F/S/Su)	4
	MATH 1220	Calculus II (F/S/Su)	4
	GEO 1120	Intro to Earth System Science (S)	3
	ATMOS 3000	Professional Development in Atmospheric Sciences	2
Complete Science Research Initiative Participation			
	SCI 1500	Interdisciplinary Principles of Scientific Inquiry	1
	SCI 2715	SRI Undergraduate Research **Earn at least 2 credits**	2
Programming/Computational Course (Complete One)			
	ATMOS 5340	Environmental Programming & Statistics (F)	3
	BIOL 3715	Biol Data Analysis & Visualization (S)	3
	GEO 3400	Computational Methods (F)	3
	MATH 4100	Intro to Data Science	3

Geoscience Emphasis Core			
	GEO 1100	Evolving Earth (F/S)	3
	GEO 2100	Reactive Earth (F/S)	3
	GEO 2500	Wasatch in the Field (F)	3
	GEO 3100	Dynamic Earth (F/S)	3
	GEO 4500	Field Methods (S)	3

Geoscience STEM Electives (Earn at least 9 credits)			
	GEO 3180	Paleobiology (S)	3
	GEO 3300	The Water Planet (S)	3
	GEO 2080	The Oceans (S)	3
	GEO 5370	Environmental Containments (F)	3
	GEO 5390	Solute Transport & Remediation (S)	3
	GEO 5650	Hydrology (F)	3
	GEO 5660	Geochemistry (F odd)	3
	GEO 5680	The Carbon Cycle (F even)	3

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Broadening STEM Electives (Earn at least 9 credits)

	ASTR 3850	Dark Sky Studies: Lightscapes (F)	3
	BIOL 1610	Princ of Biol I Lecture (F/S/Su)	4
	BIOL 1620	Princ of Biol II Lecture (F/S)	4
	BIOL 3410	Ecology and Evolution (F/S)	3
	BIOL 3460	Global Environmental Issues (F)	3
	BIOL 3470	Conservation Biology (S)	3
	BIOL 5440	Urban Ecology (F)	3
	BIOL 5460	Plant Ecology (F)	3
	BIOL 5490	Ecosystem Ecology (S)	3
	BIOL 5495	Biophysical Ecology	3
	ATMOS 1000	Secrets of the Greatest Snow on Earth (S)	3
	ATMOS 1010	Severe and Unusual Weather (F/S/Su)	3
	ATMOS 1020	Climate Change (F/S)	3
	ATMOS 3100	Atmospheric Chemistry (S)	3
	ATMOS 3200	Mountain Weather & Climate (S)	3
	ATMOS 5000	Intro to Atmospheric Science (F)	3
	ATMOS 5400	The Climate System (F)	3
	GEOG 3110	Intro to Remote Sensing	3
	GEOG 5215	Climate Change Impacts	3
	GEOG 5110	Environmental Analysis Through Remote Sensing	3
	GEOG 5120	Advanced Optical Remote Sensing	3
	GEOG 5130	Advanced Active Remote Sensing	3

Field/Lab Courses (Earn at least 6 credits)

	ATMOS 5050	Environmental Instrumentation (F)	3
	BIOL 2355	Field Botany (Su)	2
	BIOL 3485	Conservation Biol Field Lab (S)	1
	BIOL 5355	Ornithology Field Lab (F)	1
	BIOL 5425	Mycology (F even)	4
	BIOL 5455	Desert Field Ecology (F)	3
	BIOL 5465	Plant Ecology Lab	3
	GEOG 3100	Intro to GIS (F/S)	4
	GEO 2500	Wasatch in the Field (F)	3
	GEO 3250	Geology of Utah (F)	3
	GEO 4510	Field Geology 1 (Su)	2
	GEO 4520	Field Geology 2 (Su)	2
	GEO 4550	Field Geology for Geological Engineers	2

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SAMPLE SCHEDULE

1st Fall Semester	Credits
GEO 1100	3
GEO 1120	3
CHEM 1210 + 1215	4+1
SCI 1500	1
WRTG 1010	3
Total	15

1st Spring Semester	Credits
MATH 1210	4
CHEM 1220 + 1225	4+1
SCI 2715	1
WRTG 2010	3
GEO 2100	3
Total	16

2nd Fall Semester	Credits
MATH 1220	4
PHYS 2210	4
ATMOS 3000	2
SCI 2715	1
GEO 2500	3
Total	14

2nd Spring Semester	Credits
PHYS 2220	4
Broadening STEM Elective	3
Geo STEM Elective	3
BF	3
Total	13

3rd Fall Semester	Credits
GEO 3100	3
Programming Course	3
Geo STEM Elective	3
FF	3
HF	3
Total	15

3rd Spring Semester	Credits
Field/Lab	3
Broadening STEM Elective	3
DV	3
CW	3
Elective	4
Total	16

4th Fall Semester	Credits
Geo STEM Elective	3
Field/Lab	3
IR	3
Elective	4
Elective	3
Total	13

4th Spring Semester	Credits
Broadening STEM Elective	3
GEO 4500	3
Elective	3
Elective	3
Elective	3
Total	15