

### 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      ☐ BF      ☐ LS (BIOL 1120)  
☐ WRTG 1010   ☐ HF      ☐ PS (PHYS 2210)  
☐ WRTG 2010   ☐ FF

### Bachelor Degree Requirements:

- ☐ IR (BIOL 3460)      ☐ QI  
☐ DV                      ☐ CW

### 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
BIOL 1120	Intro to Earth System Science (F)	3
ATMOS 3000	Professional Development in Atmospheric Sciences (F)	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

### Complete ONE of the following

ATMOS 5340	Environmental Programming and Statistics (F)	3
GEO 3400	Computational Methods (F)	3
BIOL 3715	Biol Data Analysis & Visualization (S)	3
MATH 4100	Intro to Data Science	3

### Ecosystem Science Emphasis Core

BIOL 1620	Princ of Biol II Lecture (F/S)	4
BIOL 1625	Princ of Biol II Lab (F/S)	1
BIOL 3410	Ecology and Evolution (F/S)	3
BIOL 3460	Global Environmental Issues (F)	3
BIOL 5490	Ecosystem Ecology (S)	3

### Ecosystem Science STEM Electives (Earn at least 9 credits)

BIOL 3270	Microbial Ecosystems	3
BIOL 3340	Intro to Plant Biology (S)	3
BIOL 3470	Conservation Biology (S)	3
BIOL 5350	Ornithology (F)	3
BIOL 5370	Mammalogy (S)	3
BIOL 5425	Mycology (F)	4
BIOL 5440	Urban Ecology (F)	3
BIOL 5460	Plant Ecology (F)	3
BIOL 5495	Biophysical Ecology	4



**Broadening STEM Electives**  
**(Earn at least 9 credits; 6 credits must be 3000+ level)**

	ASTR 3850	Dark Sky Studies: Lightscares (F)	
	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 and Climate (S)	3
	ATMOS 5000	Intro to Atmospheric Science (F)	3
	ATMOS 5400	The Climate System (F)	3
	GEO 1100	Evolving Earth (F/S)	3
	GEO 3300	The Water Planet (S)	3
	GEO 2080	The Oceans (S)	3
	GEO 3300	The Water Planet (S)	3
	GEO 5680	The Carbon Cycle (F even)	3
	GEO 5650	Hydrology (F)	3
	GEOG 3110	Intro to Remote Sensing	3
	GEOG 5110	Environmental Analysis Through Remote Sensing	3
	GEOG 5120	Advanced Optical Remote Sensing	3
	GEOG 5130	Advanced Active Remote Sensing	3
	GEOG 5215	Climate Change Impacts	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 4500	Field Methods (S)	3
	GEO 4510	Field Geology 1 (Su)	2
	GEO 4520	Field Geology 2 (Su)	2
	GEO 4550	Field Geology for Geological Engineers	2



## SAMPLE SCHEDULE

1 <sup>st</sup> Fall Semester	Credits
BIOL 1620 + 1625	4+1
WRTG 1010	3
SCI 1500	1
BIOL 1120	3
ATMOS 3000	2
<b>Total</b>	<b>14</b>

2 <sup>nd</sup> Fall Semester	Credits
MATH 1220	4
CHEM 1220 + 1225	4+1
BIOL 3460 (IR)	3
SCI 2715	1
AI	3
<b>Total</b>	<b>16</b>

3 <sup>rd</sup> Fall Semester	Credits
Ecosystem STEM Elective	3
Broadening STEM Elective	3
PHYS 2220	4
HF	3
<b>Total</b>	<b>13</b>

4 <sup>th</sup> Fall Semester	Credits
Ecosystem STEM Elective	3
Field/Lab	3
Elective	3
Elective	4
<b>Total</b>	<b>14</b>

1 <sup>st</sup> Spring Semester	Credits
MATH 1210	4
CHEM 1210 + 1215	4+1
SCI 2715	1
WRTG 2010	3
FF	3
<b>Total</b>	<b>16</b>

2 <sup>nd</sup> Spring Semester	Credits
PHYS 2210	4
Ecosystem STEM Elective	3
CW	3
Broadening STEM	3
BF	3
<b>Total</b>	<b>16</b>

3 <sup>rd</sup> Spring Semester	Credits
Broadening STEM	3
Ecosystem STEM Elective	3
Field/Lab	3
BIOL 5490	3
DV	3
<b>Total</b>	<b>15</b>

4 <sup>th</sup> Spring Semester	Credits
Broadening STEM Elective	3
QI	4
Elective	3
Elective	3
Elective	3
<b>Total</b>	<b>16</b>