THE OHIO STATE UNIVERSITY
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

4-Year Course Plan **Catalog Year 2022-2023**

ENVIRONMENT & NATURAL RESOURCES MAJOR ENVIRONMENTAL SCIENCE SPECIALIZATION (A.S.) INTERESTED IN ENVIRONMENTAL SCIENCE MAJOR (B.S.)

This model plan of study is presented as a suggested path to graduate in 4 years with an Associate of Science Degree with a major in Environment & Natural Resources Environmental Science specialization and a Bachelor of Science Degree in Environment & Natural Resources with a major in Environmental Science. It is intended to be a useful guide; however, each student is unique and should review the Degree Requirements and work with their advisor to develop an individualized course plan that best fits their personal academic background and goals.

NOTE: This sheet **should not** be used in isolation. **In order to graduate in a timely manner, students must consult their academic advisor on a regular basis.**

Freshman Year (ATI)	**Autumn Semester**				**Spring Semester**			
Benchmarks	**Department**	**Course #**	**Course Name**	**Hours**	**Department**	**Course #**	**Course Name**	**Hours**
ENGLISH 1110 should be completed by the end of this year.	CHEM	1210	General Chemistry I [a]	4-5	AEDECON	2001	Principles of Food & Resource Economics [a]	3
CHEM 1210 should be completed by the end of this year.	ENGLISH	1110.01	First-Year English Composition [a]	3	ENR	2367	Comm. Env. & Nat. Res. Info	3
	ENR	2100	Intro to Environmental Science	3	GENED	1201	GE Launch Seminar	1
Begin to consider study abroad programs.	ENVSCT	1201T	Exploring Environmental Sci.	.5	MATH	1151	Calculus I [a]	5
	GENSTDS	1201.01T	College Orientation	.5	_____	_____	Electives	5
	_____	_____	GE Lit, Vis and Perf Arts	3				
			Total:	**14-15**			**Total:**	**17**

Sophomore Year (ATI)	**Autumn Semester**				**Spring Semester**			
Benchmarks	**Department**	**Course #**	**Course Name**	**Hours**	**Department**	**Course #**	**Course Name**	**Hours**
ENR 2100 and 2300 should be completed by the end of this year.	BIOLOGY	1113.01	Energy Transfer and Develop.	4	AGRCOMM	3130	Oral Expression in Ag.	3
	CRPSOIL	2300T	Intro to Soil Science	3	BIOLOGY	1114.01	Form, Function, Diversity, and Ecology	4
Apply to graduate from ATI at least one semester before the semester of your graduation.	CRPSOIL	2301T	Intro to Soil Science Lab	1	ENR	3300	Intro. to Forestry, Fisheries & Wildlife	3
Graduate with Associate of Science Degree.	ENR	2300	Society and Natural Resources	3	_____	_____	GE R.E. and G. Diversity	3
	_____	_____	GE Hist & Cultural Studies	3	_____	_____	Electives	3
			Total:	**14**			**Total:**	**16**
							Total credit hours for Associate of Science Degree:	**61-62**

Junior Year (Columbus)	**Autumn Semester**				**Spring Semester**			
Benchmarks	**Department**	**Course #**	**Course Name**	**Hours**	**Department**	**Course #**	**Course Name**	**Hours**
Apply to graduate from Columbus at least three semesters before the semester of your graduation.	CHEM	1220	General Chemistry II	5	ENR	2000	Natural Res. Data Analysis	3
	EARTHSCI	1121 **and** 1200	The Dynamic Earth	4	ENR ENR	3400 **or** 3500	Psych. of Env. Problems ❖ Comm., Env. & Develop. ❖	3
	EEOB	3410	Ecology	4	_____	_____	Student Choice Theme #2 [b]	3
	ENR	3280	Water Quality Mgmt.	2	_____	_____	Specialization Course	4
	ENR	3700	Intro to Spatial Info. for Natural Resources	3	_____	_____	Specialization Course	3
			Total:	**18**			**Total:**	**17**

Senior Year (Columbus)	**Autumn Semester**				**Spring Semester**			
Benchmarks	**Department**	**Course #**	**Course Name**	**Hours**	**Department**	**Course #**	**Course Name**	**Hours**
Maintain at least a 2.0 GPA in the major, minor, and cumulative.	CHEM	2310	Intro. Organic Chem.	4	ENR	3200	Nat. Resources Policy ❖	3
	ENR	4900.01	Env. & Nat. Resources Mgmt.	3	GENED	4001	GE Reflection	1
Graduate with Bachelor of Science Degree.	PHYSICS	1200	Mechanics, Kinematics Fluids, Waves	5	_____	_____	Specialization Course	4
	_____	_____	Citizenship Theme #1 [b]	3-4	_____	_____	Specialization Course	3
					_____	_____	Specialization Course	3
					_____	_____ **or**	Citizenship Theme #2 [b] Specialization Course	3
			Total:	**15-16**			**Total:**	**17**
							Total credit hours for Bachelor of Science Degree:	**121-123**

[a] One possible course from approved GE list OR prerequisites and/or corequisites to this major and can also fulfill certain GE Requirements, as outlined in corresponding Degree Requirements document.

[b] Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ❖ symbol.

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Degree Requirements **Catalog Year 2022-2023**

ENVIRONMENT & NATURAL RESOURCES MAJOR ENVIRONMENTAL SCIENCE SPECIALIZATION (A.S.) INTERESTED IN ENVIRONMENTAL SCIENCE MAJOR (B.S.)

This advising sheet is for Ohio State ATI students that wish to earn both an Associate of Science (A.S.) Degree with a major in Environment and Natural Resources Environmental Science specialization and a Bachelor of Science (B.S.) Degree with a major in Environmental Science. The tables below outline the complete degree requirements for the B.S. in Environment and Natural Resources – Environmental Science major. The underlined courses also represent those that fulfill a requirement for the A.S. Environment and Natural Resources major. These courses can count toward both degree programs simultaneously.

NOTE: This sheet **should not** be used in isolation. **In order to graduate in a timely manner, students must consult their academic advisor on a regular basis.**

Table 1. Degree Requirements

Subject	Course Options	Hours	✓
GE Launch Seminar	GENED 1201	1	
Writing and Information Literacy	ENGLISH 1110.01	3	
Mathematical & Quantitative Reasoning/Data Analysis	MATH 1151 or 1156	5	
Literary, Visual and Performing Arts	Student Choice	3	
Historical & Cultural Studies	Student Choice	3	
Natural Science	CHEM 1210	5	
Social & Behavioral Sciences	ENR 2300	3	
Race, Ethnic and Gender Diversity	Student Choice	3	
Theme: Citizenship for a Diverse & Just World [a]	Student Choice	4-6	
Theme: Student Choice [a]	Student Choice (recommend ENR 3200 from Core)	4-6	
GE Reflection	GENED 4001	1	
SENR Core	*See Table 2.*	16	
Major	*See Table 3.*	36	
Supporting Courses	*See Table 4.*	32	
Electives	----------	0-4	
	Minimum Total Credit Hours	**121**	

[a] Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ❖ symbol.

[b] Choose one specialization to complete Environmental Science major. For specialization requirements, see B.S. major sheets available at www.senr.osu.edu/undergraduate.

* courses are only offered at the Wooster (ATI) Campus

Note: A capital **OR** separates a pair of *equivalent* courses, a lowercase **or** separates a choice between *different* courses that fulfill the same requirement

Table 2. SENR Core Requirements

Course(s)	Hours	✓
GENSTDS 1201.01T* **and** ENVSCT 1201T* (College Orientation **and** Exploring Environmental Science) **OR** ENR 1100 (ENR Survey)	1	
ENR 2100 Introduction to Environmental Science	3	
ENR 2300 Society and Natural Res. (GE Soc & Behavioral Sci)	--	
ENR 3200 ENR Policy ❖ (recommend overlap with GE – 3 crs)	--	
ENR 3300 Intro to Forestry, Fisheries and Wildlife	3	
ENR 3400 Psychology of Environmental Problems ❖ **or** ENR 3500 Community, Environment and Development ❖	3	
ENGTECH 2050T* Intro to Geographic Info. Systems **OR** ENR 3700 Intro to Spatial Info. for Natural Resources	3	
ENR 4900.01 Natural Resources Management	3	
Total SENR Core Credit Hours	**16**	

Table 3. Major Requirements

Course(s)	Hours	✓
Environmental Science Major Core Requirements		
CHEM 2310 Intro. Organic Chemistry	4	
EEOB 3410 Intro. to Ecology	4	
ENR 3280 Water Quality Management	2	
Total Major Core Credit Hours	**10**	
Environmental Science Specializations [b]		
Ecosystem Restoration	26	
Environmental Molecular Science		
Soil Resources & Environmental Sustainability		
Water Science		
Total Environmental Science Major Credit Hours	**36**	

Table 4. Major Supporting Courses

Course(s)	Hours	✓
CHEM 1220 General Chemistry II	5	
BIOLOGY 1113.01 Energy Transfer and Development	4	
BIOLOGY 1114.01 Form, Function, Diversity, and Ecology	4	
EARTHSC 1121 (3) and 1200 (1) The Dynamic Earth	4	
PHYSICS 1200 Mechanics, Kinematics, Fluids, Waves	5	
ENR 3000 Soil Science **OR** CRPSOIL 2300T*	3	
ENR 3001 Soil Science Lab **OR** CRPSOIL 2301T*	1	
ENR 2000 Natural Resource Data Analysis	3	
ENR 2367 Communicating ENR Information	3	
Total Major Supporting Courses Credit Hours	**32**	

Additional Bachelor's Degree Requirements:

1. A 2.00 cumulative CPHR is required as well as a 2.00 CPHR in the major and minor coursework.
2. Students must complete a minimum of 30 credit hours at The Ohio State University with at least 12 in the department in Columbus offering the major.
3. Applications to graduate must be submitted at least three semesters in advance.