

ENVIRONMENTAL RESOURCE MANAGEMENT, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2023-24 academic year. To access previous years' suggested academic plans, please visit the archive (<https://bulletins.psu.edu/undergraduate/archive/>) to view the appropriate Undergraduate Bulletin edition (*Note: the archive only contains suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin*).

Environmental Science Option: Environmental Resource Management, B.S. at University Park Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year

Fall	Credits Spring	Credits
CHEM 110 ^{**}	3 CHEM 112	3
AGBM 101 or ECON 102 [†]	3 ENGL 15, 30H, CAS 137H, or ENGL 137H ^{††}	3
MATH 110 or 140 ^{††}	4 MATH 111 or 141	2-4
ERM 151 [*]	1 BIOL 110 [*]	4
First Year Seminar	1-3 General Education Course	3
General Education Course	3	
	15-17	15-17

Second Year

Fall	Credits Spring	Credits
BIOL 220W	4 STAT 200, 240, or 250 ^{††}	3-4
CHEM 111 ^{**†}	1 CHEM 202 or 210	3
SOILS 101 ^{**†}	3 PHYS 211 or 250 [†]	4
SOILS 102	1 GEOG 260 or 160 [†]	3
CAS 100A, 138T, or ENGL 138T ^{††}	3 General Education Course (GHW)	1.5
General Education Course	3	
	15	14.5-15.5

Third Year

Fall	Credits Spring	Credits
ERM 411	3 ENGL 202C ^{††}	3
ASM 327 [*]	3 CED 201	3
GEOSC 303 or 1	3 ERM 300 [*]	3
Ecology Selection	3 Specialization/Minor Course	3
General Education Course	3 Specialization/Minor Course	3

General Education Course (GHW)		1.5
	15	16.5
Fourth Year		
Fall	Credits Spring	Credits
ERM 412 [*]	3 ERM 413W [*]	3
SOILS 450	3 400 Level ERM Course	3
400 Level ERM Course	3 Communications/Sustainability/Leadership Selection	3
Specialization/Minor Course	3 Specialization/Minor Course	3
Specialization/Minor Course	3 Specialization/Minor Course	3
	15	15

Total Credits 121-126

* Course requires a grade of C or better for the major

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Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

All incoming Schreyer Honors College first-year students at University Park will take ENGL 137H/CAS 137H in the fall semester and ENGL 138T/CAS 138T in the spring semester. These courses carry the GWS designation and satisfy a portion of that General Education requirement. If the student's program prescribes GWS these courses will replace both ENGL 15/ENGL 30H and CAS 100A/CAS 100B/CAS 100C. Each course is 3 credits.

Advising Notes:

- Please consult with an academic adviser in the development of your plan as some courses are not taught every semester.
- Students with non-engineering interests (specialization areas like soils, water resources, wildlife, biology, ecology, environmental policy) should take MATH 110, MATH 111, and PHYS 250. For students interested in obtaining the Environmental Engineering minor, MATH 140, MATH 141, and PHYS 211 are required. Most ERM students complete MATH 110, MATH 111, and PHYS 250 and specialize in areas pertaining to natural resource conservation.
- US and IL requirements should be fulfilled by selecting GH and GA courses with the appropriate US/IL designation.
- Please consult with your academic adviser regarding the appropriate selection of Specialization/Minor courses.

- **Communications/Sustainability/Leadership Selection Courses:** AEE 360, AEE 440, CAS 213, CAS 214, CAS 250, CAS 352, CIVCM 211, ERM 499, MGMT 215, SUST 200, ERM 402
- **Ecology Selection Courses:** BIOL 415, BIOL 436, BIOL 444, BIOL 446, BIOL 448, BIOL 450W, BIOL 463, BIOL 482, BIOL 499A, ERM 430, ERM 431, ERM 435, ERM 450, HORT 445, SOILS 412W, WFS 422, WFS 430, WFS 466

Soil Science Option: Environmental Resource Management, B.S. at University Park Campus

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First Year

Fall	Credits Spring	Credits
CHEM 110 ^{**†}	3 CHEM 112	3
AGBM 101 or ECON 102 [†]	3 ENGL 15, 30H, CAS 137H, or ENGL 137H ^{††}	3
MATH 110 or 140 ^{††}	4 SOILS 101 ^{**†}	3
ERM 151 [*]	1 SOILS 102	1
First Year Seminar	1-3 CAS 100A, 138T, or ENGL 138T ^{††}	3
General Education Course	3 General Education Course	3
15-17		16

Second Year

Fall	Credits Spring	Credits
BIOL 110 or 127	3-4 PHYS 211 or 250 [†]	4
CHEM 111 ^{**†}	1 GEOSC 20 or 1	3
CHEM 202 or 210	3 STAT 200, 240, or 250 ^{††}	3-4
AGRO 28, HORT 101, TURF 235, BIOL 220W, or FOR 203	3-4 General Education Course	3
General Education Course	3	
13-15		13-14

Third Year

Fall	Credits Spring	Credits
SOILS 412W	3 ENGL 202C ^{††}	3
ERM 411	3 SOILS 402, 420, or ERM 440	3
ASM 327 [*]	3 SOILS 401, 405, or GEOSC 452	3
SOILS 403	2 ERM 300 [*]	3
Specialization/Minor Course	3 Specialization/Minor Course	3
General Education Course (GHW)	1.5	
15.5		15

Fourth Year

Fall	Credits Spring	Credits
SOILS 416 [*]	4 SOILS 404 or FOR 475	3
SOILS 450	3 Specialization/Minor Course	3
Specialization/Minor Course	3 Electives	4-7
Specialization/Minor Course	3 General Education Course	3
Specialization/Minor Course	3 General Education Course (GHW)	1.5
16		14.5-17.5

Total Credits 118-126

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All incoming Schreyer Honors College first-year students at University Park will take ENGL 137H/CAS 137H in the fall semester and ENGL 138T/CAS 138T in the spring semester. These courses carry the GWS designation and satisfy a portion of that General Education requirement. If the student's program prescribes GWS these courses will replace both ENGL 15/ENGL 30H and CAS 100A/CAS 100B/CAS 100C. Each course is 3 credits.

Advising Notes:

- Please consult with an academic adviser in the development of your plan as some courses are not taught every semester.
- Students with non-engineering interests (specialization areas like soils, water resources, wildlife, biology, ecology, environmental policy) should take MATH 110, MATH 111, and PHYS 250. For students interested in obtaining the Environmental Engineering minor, MATH 140, MATH 141, and PHYS 211 are required. Most ERM students complete MATH 110, MATH 111, and PHYS 250 and specialize in areas pertaining to natural resource conservation.
- US and IL requirements should be fulfilled by selecting GH and GA courses with the appropriate US/IL designation.
- Please consult with your academic adviser regarding the appropriate selection of Specialization/Minor courses.

Water Science Option: Environmental Resource Management, B.S. at University Park Campus

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First Year

Fall	Credits Spring	Credits
CHEM 110 ^{**}	3 CHEM 112	3
AGBM 101 or ECON 102 [†]	3 ENGL 15, 30H, CAS 137H, or ENGL 137H ^{††}	3
MATH 110 or 140 ^{††}	4 MATH 111 or 141	2-4
ERM 151 [*]	1 BIOL 110 [*]	4
First Year Seminar	1-3 General Education Course	3
General Education Course	3	
	15-17	15-17

Second Year

Fall	Credits Spring	Credits
BIOL 220W	4 STAT 200, 240, or 250 ^{††}	3-4
CHEM 111 ^{**}	1 PHYS 211 or 250 [†]	4
SOILS 101 ^{**}	3 CHEM 202 or 210	3
SOILS 102	1 GEOG 260 or 160 [†]	3
CAS 100A, 138T, or ENGL 138T ^{††}	3 General Education Course (GHW)	1.5
General Education Course	3	
	15	14.5-15.5

Third Year

Fall	Credits Spring	Credits
ERM/ASM 309	3 ENGL 202C ^{††}	3
ERM 411	3 CED 201	3
ASM 327 [*]	3 ERM 300 [*]	3
Specialization/Minor Course	3 Specialization/Minor Course	3
General Education Course	3 Specialization/Minor Course	3
	General Education Course (GHW)	1.5
	15	16.5

Fourth Year

Fall	Credits Spring	Credits
ERM 450	3 ERM 412 [*]	3
ERM 447	3 ERM 413W [*]	3
GEOC 452, SOILS 405, or SOILS 401	3 FOR 470	3
ERM 435	3 ERM 440, 448, 449, CE 370, FOR 303, FOR 403, SOILS 450, WFS 410, or WFS 422	3
Communications/Sustainability/Leadership Selection	3 Specialization/Minor Course	3
	15	15

Total Credits 121-126

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Advising Notes:

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- US and IL requirements should be fulfilled by selecting GH and GA courses with the appropriate US/IL designation.
- Please consult with your academic adviser regarding the appropriate selection of Specialization/Minor courses.
- **Communications/Sustainability/Leadership Selection Courses:** AEE 360, AEE 440, CAS 213, CAS 214, CAS 250, CAS 352, CIVCM 211, ERM 499, MGMT 215, SUST 200, ERM 402

Environmental Science Option: Environmental Resource Management, B.S. at Commonwealth Campuses

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First Year

Fall	Credits Spring	Credits
CHEM 110 ^{**†}	3 CHEM 112	3
CHEM 111 ^{**†}	1 ENGL 15, 30H, CAS 137H, or ENGL 137H ^{††}	3
AGBM 101 or ECON 102 [†]	3 MATH 111 or 141	2-4
MATH 110 or 140 ^{††}	4 CAS 100A, 138T, or ENGL 138T ^{††}	3
First Year Seminar	1-3 General Education Course	3
General Education Course	3	
15-17		14-16

Second Year

Fall	Credits Spring	Credits
BIOL 110 [*]	4 BIOL 220W	4
CHEM 202 or 210	3 PHYS 211 or 250 [†]	4
STAT 200, 240, or 250 ^{††}	3-4 ENGL 202C ^{††}	3
General Education Course	3 General Education Course	3
General Education Course (GHW)	1.5 General Education Course (GHW)	1.5
14.5-15.5		15.5

Third Year

Fall	Credits Spring	Credits
ERM 151 [*]	1 CED 201	3
SOILS 101 ^{**†}	3 ERM 300 [*]	3
SOILS 102	1 400 Level ERM Course	3
ERM 411	3 Specialization/Minor Course	3
ASM 327 [*]	3 Specialization/Minor Course	3
GEOSC 303 or 1	3	
GEOG 260 or 160 [†]	3	
17		15

Fourth Year

Fall	Credits Spring	Credits
ERM 412 [*]	3 ERM 413W [*]	3
SOILS 450	3 400 Level ERM Course	3
Ecology Selection	3 Communications/ Sustainability/Leadership Selection	3
Specialization/Minor Course	3 Specialization/Minor Course	3
Specialization/Minor Course	3 Specialization/Minor Course	3
15		15

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- **Ecology Selection Courses:** BIOL 415, BIOL 436, BIOL 444, BIOL 446, BIOL 448, BIOL 450W, BIOL 463, BIOL 482, BIOL 499A, ERM 430, ERM 431, ERM 435, ERM 450, HORT 445, SOILS 412W, WFS 422, WFS 430, WFS 466

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First Year

Fall	Credits Spring	Credits
CHEM 110 ^{**†}	3 CHEM 112	3
AGBM 101 or ECON 102 [†]	3 ENGL 15, 30H, CAS 137H, or ENGL 137H ^{††}	3
MATH 110 or 140 ^{††}	4 CAS 100A, 138T, or ENGL 138T ^{††}	3
First Year Seminar	1-3 GEOSC 20 or 1	3
General Education Course	3 General Education Course	3
14-16		15

Second Year

Fall	Credits Spring	Credits
BIOL 110 or 127	3-4 PHYS 211 or 250 [†]	4
CHEM 111 ^{**†}	1 ENGL 202C ^{††}	3
CHEM 202 or 210	3 General Education Course	3
STAT 200, 240, or 250 ^{††}	3-4 General Education Course	3
General Education Course	3 General Education Course (GHW)	1.5
General Education Course (GHW)	1.5	
14.5-16.5		14.5

Third Year

Fall	Credits Spring	Credits
SOILS 101 ^{**†}	3 AGRO 28, HORT 101, TURF 235, BIOL 220W, or FOR 203	3-4
SOILS 102	1 SOILS 402, 420, or ERM 440	3
ERM 151 [*]	1 SOILS 401, 405, or GEOSC 452	3
SOILS 412W	3 ERM 300 [*]	3
ERM 411	3 Specialization/Minor Course	3
ASM 327 [*]	3	
SOILS 403	2	
16		15-16

Fourth Year

Fall	Credits Spring	Credits
SOILS 416 [*]	4 SOILS 404 or FOR 475	3
SOILS 450	3 Specialization/Minor Course	6
Specialization/Minor Course	3 Elective	3-7
Specialization/Minor Course	3	
Specialization/Minor Course	3	
16		12-16

Total Credits 117-126

Course is an Entrance to Major requirement

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First Year		
Fall	Credits Spring	Credits
CHEM 110 ^{**†}	3 CHEM 112	3
CHEM 111 ^{**†}	1 ENGL 15, 30H, CAS 137H, or ENGL 137H ^{††}	3
AGBM 101 or ECON 102 [†]	3 MATH 111 or 141	2-4
MATH 110 or 140 ^{††}	4 CAS 100A, 138T, or ENGL 138T ^{††}	3
First Year Seminar	1-3 General Education Course	3
General Education Course	3	
15-17		14-16
Second Year		
Fall	Credits Spring	Credits
BIOL 110 [*]	4 BIOL 220W	4
CHEM 202 or 210	3 PHYS 211 or 250 [†]	4
STAT 200, 240, or 250 ^{††}	3-4 ENGL 202C ^{††}	3
General Education Course	3 GEOG 260 or 160 [†]	3
General Education Course (GHW)	1.5 General Education Course (GHW)	1.5
14.5-15.5		15.5
Third Year		
Fall	Credits Spring	Credits
ERM 151 [*]	1 CED 201	3
ERM/ASM 309	3 General Education Course	3
ERM 411	3 ERM 300 [*]	3
ASM 327 [*]	3 Specialization/Minor Course	3
SOILS 101 ^{**†}	3 Specialization/Minor Course	3
SOILS 102	1	
Specialization/Minor Course	3	
17		15
Fourth Year		
Fall	Credits Spring	Credits
ERM 435	3 ERM 412 [*]	3
ERM 450	3 ERM 413W [*]	3
ERM 447	3 FOR 470	3
GEOSC 452, SOILS 405, or SOILS 401	3 ERM 440, 448, 449, CE 370, FOR 303, FOR 403, SOILS 450, WFS 410, or WFS 422	3
Communications/Sustainability/Leadership Selection	3 Specialization/Minor Course	3
15		15
Total Credits 121-126		

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