

Environmental Science Degree Checklist (Effective Catalog Year: Fall, 2019)

Name: _____ Student ID: _____ Track: _____

**Core for All Environmental Science Majors
(74 Credits):**

Course Title	Course #	Credits	Plan	Done
Introduction of Environmental Science				
Orientation to ESM	ESM 150	1		
Intro Environ Systems	ESM 220	4		
Applied Env Studies: Problem Solving	ESM 221	4		
Applied Env Studies: Policy Considerations	ESM 222	4		
Biology*				
Bio Concepts & App. I	SCI 341U/L	4		
Bio Concepts & App. II	SCI 342U/L	4		
+ Students must complete 8 credits of SCI 341/L or SCI 342/L or ESM 343/L OR 15 credits BIO 211/214, BIO 212/215, BIO 213/216				
Chemistry				
Fund. Env Chemistry I or General Chemistry	ESM 230/R CH 221/7	4 5		
Fund. Env Chemistry II or General Chemistry	ESM 231/L CH 222/8	4 5		
Geographical Information Systems (GIS)				
GIS for Scientists	G 424	4		
or				
Field GIS	G 425	4		
or				
Mapping	GEOG 380U/L	4		
GIS I: Introduction	GEOG 488/L	4		
Communications				
Tech Report Writing	WR 327	4		
Environmental Management and Methods				
Intro to Env Mgmt	ESM 335	4		
Environmental Research Methods	ESM 340	4		
Environ. Seminar	ESM 407	1		
Advanced Environmental Topics (16)				
Advanced Environmental Topics	ESM 410- 499	4		
Advanced Environmental Topics	ESM 410- 499	4		
Advanced Environmental Topics	ESM 410- 499	4		
Advanced Environmental Topics	ESM 410- 499	4		
Environmental Science Topical Area** (12)				
Advanced Environmental Topics	ESM 410- 499	4		
Advanced Environmental Topics	ESM 410- 499	4		
Advanced Environmental Topics	ESM 410- 499	4		

** Students must complete 12 credits of Topical Area courses selected from an approved list of courses available on the department Web site <https://www.pdx.edu/environmental-science/sites/g/files/znlchr2231/files/2022-06/Environmental%20Science%20Degree%20TOPICAL%20COURSES_2019.pdf>.

Note: Up to 4 credits of approved ESM 401 or 404 can substitute for 4 credits of ESM 410-499 requirement.

Science Track (30 Credits):

Course Title	Course #	Credits	Plan	Done
Environmental Systems				
Environ Systems I/Lab	ESM 320/3	6		
Environ Systems II/Lab	ESM 321/4	6		
Env Risk Assess./Lab	ESM 322/5	6		
Chemistry				
Env Contaminant Analy or General Chemistry	ESM 315 CH 223/9	4 5		
Physical Process***				
Physics	PH 2XX	4		
or				
Geology	G 2XX	4		
***Physics or Geology (4 credits) 200-level or above				
Math				
Intro College Math II	MTH 112	4		
or				
Calculus I	MTH 251	4		

Management Track (30 Credits):

Course Title	Course #	Credits	Plan	Done
Environmental Topics				
Env and Ecol Literacy	ESM 330	4		
Methods of Env Mgmt	ESM 333/4	6		
Environmental Justice	ESM 487/5	4		
Nat. Res. Policy & Mgmt	ESM 435	4		
Economics				
Economics of Env Issues	EC 332U	4		
Physical Process				
Physical Geography	GEOG 210/L	4		
Math				
Intro College Math II	MTH 112	4		

Electives (31 credits)

Electives	Credits	Plan	Done

University Studies (45 Credits)

Course Title	Credits	Plan	Done
Freshman Inquiry	5, 5, 5		
Sophomore Inquiry	4, 4, 4		
Junior Cluster	4, 4, 4		
Senior Capstone	6		

Note: This is a list of current recommendations. Please see the PSU Bulletin <<http://www.pdx.edu/academic-affairs/psu-bulletin>> for a complete list of courses that may count and course descriptions and the degree map <<http://www.pdx.edu/undergraduate-programs>>