

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/L	4		
Applied Env Studies: Problem Solving	ESM 221/L	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 211/4, BIO 212/5, BIO 213/6				
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/L	4		
or				
Field GIS	G 425	4		
or				
Mapping	GEOG 380U/L	4	Can be	waived
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 < <http://www.pdx.edu/esm/file/841>>.

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 320/4	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/L	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 112Z	4		
or				
Calculus I	MTH 251	4		

Management Track (30 Credits):

Course Title	Course #	Cre dits	Plan	Done
Environmental Topics				
Env and Ecol Literacy	ESM 330	4		
Methods of Env Mgmt	ESM 333&334	6		
Environmental Justice	ESM 487	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 112Z	4		

Electives and Race and Ethnic Studies (RESR) (31 credits)

NOTE(RESR for students using Fall 2022 or more current catalog year)

Electives	Credits	Plan	Done

University Studies or Honors (41-45 Credits)

Course Title	Credits	Plan	Done
Freshman Inquiry/ Honors	5, 5, 5		
Sophomore Inquiry (HON x3)	4, 4		
Junior Cluster/HON	4, 4, 4		
Senior Capstone/HON thesis	6		

***updated to reflect change in GEOG 488 prerequisite**