School of Earth and Space Exploration
Arizona State University

Catalog Year: 2025-2026

Earth and Environmental Sciences BS Course Prerequisites

Prefix	Course Title	Hours	Semester Offered	Enrollment requirements
GLG 108	Water Planet	4	S	
GLG 110	Dangerous World (lecture)	3	F/S/SS	
GLG 111	Dangerous World Laboratory	1	F/S/SS	
SES 220	Biology of a Changing Earth	3	F	GLG 108 with C or better OR GLG 110 and GLG 111 with C or better OR SES 121 and SES 123 with C or better
SES 225	Global Biogeochemical Cycles	3	S	BIO 100, BIO 182, BIO 282, or SES 220 with C or better; CHM 101, or both CHM 107 and 108, or CHM 113, or CHM 114 with C or better; GLG 108, or both GLG 110 and 111, or both SES 121 and 123 with C or better
GLG 305	Dynamic Earth	3	S	CHM 101 or higher with C or better; both GLG 101 and 103 with C or better, or both GLG 110 and 111 with C or better, or both SES 121 and 123 with C or better; MAT 170, 210, 251, 265 or 270 with C or better
GLG 325	Oceanography	3	F	Prerequisite(s) w/ C or better: BIO 100, BIO 182, BIO 282, SES 220, SES 225, or both GLG 101 & 103, or both SES 121 & 123; CHM 101, 113, 114, 117, or both CHM 107 & 108; Credit allowed for only BIO 325 or CHM 385 or GLG 325
GLG 327	Earth's Critical Zone	3	F	Prerequisite(s) with C or better: CHM 101 or higher or PHY 101 or higher; both GLG 101 and 103, or both SES 121 and 123, or SES 225; MAT 170, 171, 210, 251, 265, or 270; Credit is allowed for only GLG 327 or SOS 374
GLG 464	Solving Environmental Problems	3	S	Earth and Environmental Studies BA major; GLG 305 with C or better; GLG 327 with C or better; senior standing
EES electives	Various (at least 2 must be 400-level courses)	12	F/S/SS	View the List of Pre-approved Upper-Division Electives at https://sese.asu.edu/student-life/forms-resources

Codes for offering: F=fall, S=spring, SS=summer session

Special notes: This handout is intended as a helpful tool for scheduling planning. Students and advisors should always consult the course catalog for official course information since pre-requisites and course offerings are constantly evolving.

Related Chemistry requirements				
General Chemistry (must complete both courses)				
CHM 113	General Chemistry I	4	F/S/SS	CHM 101 with C or better or ALEKS score of 61 or higher OR Pre- or corequisite(s): MAT 170, 171, 210, 251, 265 or 270 with C or better if completed
CHM 116	General Chemistry II	4	F/S/SS	CHM 113, 114, or 117 with C or better
Organic Chemistry (choose one)				
CHM 231	Elementary Organic Chemistry	3	F/S/SS	CHM 101, 114, 116, or 118 with C or better
CHM 233	General Organic Chemistry	3	F/S/SS	CHM 116 or 118 with C or better
Environmental Chemistry (choose one)				
ERM 406	Environmental Chemistry	3	S	CHM 116 with C or better; MAT 170 or higher with C or better; Credit is allowed for only CHM 302 or ERM 406 or ERM 526 or ERM 598
CHM 302	Environmental Chemistry	3	F/S	CHM 114, 116, or 118 with C or better; CHM 231, 233, or 333 with C or better; Credit is allowed for only CHM 302 or ERM 406 or ERM 526 or ERM 598
Related Math requirement (must take at least one from below list)				
MAT 251	Calculus for Life Sciences	3	F/S/SS	MAT 170 or 171 with C or better or ALEKS score of 61 or higher; Credit is allowed only for MAT 210 or MAT 251
MAT 265	Calculus for Engineers I	3	F/S/SS	MAT 170 or 171 with C or better or ALEKS score of 76 or higher; Credit is allowed for only MAT 265 or MAT 270
MAT 270	Calculus w/Analytic Geometry I	4	F/S/SS	MAT 170 or 171 with C or better or ALEKS score of 76 or higher; Credit is allowed for only MAT 265 or MAT 270
Related GIS and Statistics requirement (choose one)				
STP 231	Statistics for Life Science	3	F/S/SS	MAT 117 or 142 or higher with C or better or ALEKS score of 61 or higher
GIS 270	Statistics for Geography and Planning	3	F/S/SS	MAT 117, 119, 142, 170, 210, 211, 251, 265, or 270 with C or better
Related Physics requirement (complete 4 credits)				
PHY 101	Introduction to Physics	4	F/S/SS	
PHY 111	General Physics	3	F/S/SS	MAT 170 or higher with C or better or ALEKS score of 61 or higher or Corequisite(s): MAT 210 or higher
PHY 113	General Physics Laboratory	1	F/S/SS	Pre- or corequisite: PHY 111 with C or better