School of Earth and Space Exploration
Arizona State University

**Catalog Year: 2025-2026**

# Earth and Environmental Sciences, BA 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 (must be upper division, 300 level or higher) | 15 | 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.

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| **Related Chemistry requirements (must take at least one from below list)** | | | | |
| CHM 101 | Introductory Chemistry | 4 | F/S/SS | |
| CHM 107 & CHM 108 (lab) | Chemistry and Society & Chemistry and Society lab | 3/1 | F/S | |
| 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 114 | General Chemistry for Engineers | 4 | F/S | 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 |
| **Related GIS and Statistics requirements (must take GIS 205 and choose at least one from the remaining GIS/STP options)** | | | | |
| GIS 205 | Geographic Information Science I | 3 | F/S/SS | |
| 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 |
| STP 226 | Elements of Statistics | 3 | F/S/SS | MAT 117 or 142 or other course meeting General Studies MA requirement with C or better or ALEKS score of 61 or higher |
| STP 231 | Statistics for Life Science | 3 | | MAT 117 or 142 or higher with C or better or ALEKS score of 61 or higher |
| **Related Math requirements (must take at least one from below list)** | | | | |
| MAT 170 | Precalculus | 3 | F/S/SS | MAT 117 with C or better or ALEKS score of 61 or higher; Credit is allowed for only MAT 170 or MAT 171 |
| MAT 210 | Brief Calculus | 3 | F/S/SS | MAT 117, 119, 170, or 171 with C or better or ALEKS score of 61 or higher; Credit is allowed for only MAT 210 or MAT 251 |
| 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 |