

# Department of Earth and Environment Bachelor of Arts in Earth Sciences

(For students entering after 2021)

## Lower Division prerequisites (33 credits Minimum)

ISC 1056: First Yr Sem in Earth and Env. (1) f,s \_\_\_\_\_

Choose one of the following  
 ESC 1000&L Intro to Earth Science & Lab (4) \_\_\_\_\_  
 GLY 1010&L Physical Geology & Lab (4) \_\_\_\_\_  
 GLY 3039&L Environmental Geol & Lab (4) \_\_\_\_\_

CHM 1045&L General Chem I&Lab (4) f,s,ss \_\_\_\_\_  
 Prerequisites: MAC1105 or MAC1114 or MAC1140 or MAC1147 or CHM1025 or adequate Math placement

CHM 1046&L General Chem II&Lab (4) f,s,ss \_\_\_\_\_  
 Prerequisite: CHM1045+L

Choose one of the following  
 MAC 1114 Trigonometry (3) f,s,ss \_\_\_\_\_  
 Prerequisites: MAC1105 or adequate Math placement  
 MAC 1147 Pre-Calc Alg and Trig (4) f,s,ss \_\_\_\_\_  
 Prerequisites: MAC1105 w/a B or adequate Math placement

Choose one of the following  
 STA 2122 Intro to Applied Statistics (3) f,s,ss \_\_\_\_\_  
 STA 2023 Statistical Methods (3) f, s, ss \_\_\_\_\_  
 STA 3111 Statistics I (3) f,s,ss \_\_\_\_\_  
 MAC 2311 Calculus 1 (4) f,s,ss \_\_\_\_\_  
 Prerequisite: MAC1147 or MAC1114+MAC1140 or adequate Math placement.

PHY 2048 Physics with Calc I (4) f,s,ss \_\_\_\_\_  
 Pre/co-requisites: MAC2311  
 or  
 PHY 2053 Physics without Calc I (4) f,s,ss \_\_\_\_\_  
 Pre/co-requisites: MAC1114  
 and  
 PHY 2048L General Physics Lab I (1) \_\_\_\_\_  
 Pre/co-requisites: PHY2048 or PHY2053

PHY 2049 Physics with Calc II (4) f,s,ss \_\_\_\_\_  
 Pre/co-requisites: MAC2312 and PHY2048  
 or  
 PHY 2054 Physics without Calc II (4) f,s,ss \_\_\_\_\_  
 Prerequisites: PHY2053 or PHY2048  
 and  
 PHY 2049L General Physics Lab II (1) \_\_\_\_\_  
 Pre/co-requisites: PHY2049 or PHY2054

BSC 2011&L\* General Biol II & Lab (4) f,s,ss \_\_\_\_\_  
 or  
 GLY 1101&L History of Life & Lab (4) f,s,ss \_\_\_\_\_  
 \* BSC 2010: General Biology I is **not** a prerequisite for BSC2011

## Upper Division program (32 credits Minimum)

**Complete requirements from each list**

### List 1: All Required: (11 credits)

GLY 3112 Earth Through Time (3) s \_\_\_\_\_

GLY 3202&L Earth Materials & Lab (4) f \_\_\_\_\_  
 Prerequisites: (ESC1000 or GLY1010 or GLY3039) + CHM1045  
 or  
 MET3502+L Synoptic Meteorology & Lab (4) s \_\_\_\_\_  
 Prerequisite: MET 3003

OCE 3014 Oceanography **GL** (3) f,s,ss \_\_\_\_\_  
 or  
 OCP 3002 Physical Oceanography (3) f \_\_\_\_\_  
 Prerequisites: CHM1045 + (PHY2048 or PHY2053)

ISC4935 Senior Seminar in E&E Science (1) f, s \_\_\_\_\_  
 Prerequisite: Must be in final year of study. Permission of the instructor required

### List 2: THREE of the following (9-12 credits):

GLY 4300&L Petrology & Lab (4) s \_\_\_\_\_  
 Prerequisite: GLY3202  
 GLY 4400&L Structural Geology & Lab (4) f \_\_\_\_\_  
 Prerequisites:(ESC1000 or GLY1010 or GLY3039) and (MAC1114 or MAC1147)  
 GLY 4511&L Stratigraphy & Lab (4) f \_\_\_\_\_  
 Prerequisite: GLY3202  
 GLY 4822 Intro to Hydrogeology (3) s \_\_\_\_\_  
 Prerequisites: (PHY2048 or PHY2053), CHM1045, MAC2311  
 MET 3003 General Meteorology (3) f \_\_\_\_\_  
 Prerequisite: PHY2048 or PHY2053  
 MET 4102 Physical Climatology (3) f \_\_\_\_\_  
 Prerequisites: PHY 2054 or PHY 2049  
 MET 4420 Physical Meteorology (3) s \_\_\_\_\_  
 Prerequisites: PHY 2048, PHY 2049, MET 3003

### List 3: TWO of the following (6-8 credits):

EVR 3013&L Ecol. of S. Fla and Lab (4) f, s, ss \_\_\_\_\_  
 EVR 4211&L Water Resources and Lab (3) f \_\_\_\_\_  
 Prerequisites: CHM1045, CHM1046 or equivalent, BSC1010  
 EVR 4592&L Soils & Ecosyst and Lab (4) s \_\_\_\_\_  
 Prerequisites: BSC2010 and CHM1045  
 GEO 3510 Earth Resources GL (3) f,s, \_\_\_\_\_  
 GLY 3034 Natural Disasters (3) f,s, \_\_\_\_\_  
 GLY 4881 Coastal Hazards GL (3), f \_\_\_\_\_

### List 4 Electives: (6-8 credits):

**TWO** approved upper division GLY (excluding GLY 3039), MET or EVR courses.

F: Fall term; s: Spring term; ss: Summer term. Note: scheduled semesters are subject to change.

### Other Requirements for graduation:

- **Minimum 120 credits, FIU GPA 2.0 or higher**  
Maximum of 60 lower division credits may be transferred from another institution. 30 Maximum number of upper-division credits applied toward the bachelor's degree.
- **UCC requirements** (See PDA and Academic Advisor for more information on how to complete requirements)
- **University Global Learning Requirement** (2 courses. See goglobal.fiu.edu and Academic Advisor for options on how to complete this requirement)
- **Civics Literacy Requirement:** The Civic Literacy requirement is a statewide mandate that applies to undergraduate students initially entering a Florida State University System (SUS) and/or Florida College System (FCS) institution in the 2018-19

academic year and thereafter. Please see your academic advisor to learn about your options to complete this requirement.

- **University Foreign Language Requirement (FLENT/FLEX):** State-mandated foreign language requirement
- **Summer Enrollment:** Students transferring to FIU with less than 60 credits are required to earn at least 9 credits during one or more summer terms at FIU or any other university in the State University System of Florida. Courses may be completed in person or online.
- **College of Arts, Sciences & Education** minimum 45 upper division credits requirement

**Academic Advising:** You should meet with your advisor at least once a semester. To make an appointment with your advisor, log into MyFIU and navigate to the "Academic Advising" tile, then select "Success Network."

**Success Markers:** The Earth & Environment Department has identified important courses in the major that indicate you are on track for successful degree completion. In cases where students are not making good progress, a change of major may be required.

**30 credits-**

- Complete ISC 1056 with a C or better
- Complete 1 course from this list with a C or better: MAC 1105, MAC 1140, MAC 1114, MAC 1147, MAC 2311, MAC 2281
- Complete 2 courses from this list with a C or better: ESC 1000, ESC 1000L, GLY 1010, GLY 1010L, GLY 3039, GLY 3039L

**45 credits-**

- Complete 1 course from this list with a C or better: MAC 1114, MAC 1147, MAC 2311, MAC 2281
- Complete CHM 1045 and CHM 1045L with a C or better.
- Complete 2 courses from this list with a C or better by 45 credits: GLY 1101, GLY 1101L, BSC 2011, BSC 2011L

**60 credits-**

- Complete 1 course from this list with a C or better: MAC 2311, MAC 2281, STA 2122, STA 2023, STA 3111
- Complete CHM 1046 and CHM 1046L with a C or better
- Complete 2 courses from this list with a C or better: PHY 2048, PHY 2053, PHY 2048L