



**Earth Science Electives**  
 (other electives may be chosen, as approved by Department Advisor)

- GLY 1010/L Physical Geology
- GLY 2072/L Earth's Climate and Global Change
- GLY 3039/L Environmental Geology
- GLY 3202/L Earth Materials
- GLY 4822/L Intro to Hydrogeology
- MET 2010/L Meteorology & Atmospheric Physics

**Biological Science Electives**  
 (other electives may be chosen, as approved by Department Advisor)

- MCB 2000/L Introductory Microbiology (GL)
- OCB 2000/L Introductory Marine Biology
- PCB 3043/L Ecology
- EVR 3013/L Ecology of South Florida

**Academic Progression Standards - Students who do not pass common prereqs after 2 attempts will be advised to change their major into an area where they can be successful. Drops after the add/drop period, which result in a DR grade, are considered an attempt in the course and count as an unsuccessful enrollment.**

**Environmental Technical Electives**  
 (other electives may be chosen, as approved by Department Advisor)

- CES 3580 Hurricane Engineering and Global Sustainability (GL) **Fall only**
- CGN 4321 GIS Applications in Civil and Env. Eng.
- CGN 4510 Sustainable Building Engineering
- CWR 4204 Hydraulic Engineering
- CWR 4530 Modeling Applications in Water Resources Engineering
- EGN 4070 Engineering for Global Sustainability and Environmental Protection (GL) **Spring only**
- ENV 4024 Bioremediation Engineering
- ENV 4330 Hazardous Waste Site Assessment
- ENV 4930 Special Topics: Indoor Air Quality
- ENV 4560 Reactor Design

(GL) indicates Global Learning course. Students are required to take 2 GL courses, and at least 1 must be discipline specific.

GL Foundations \_\_\_\_\_  
GL Discipline \_\_\_\_\_

GRW-1 \_\_\_\_\_  
GRW-2 \_\_\_\_\_

FLENT/FLEX \_\_\_\_\_  
Summer Req. \_\_\_\_\_

Civics Literacy \_\_\_\_\_  
Civics Literacy Exam \_\_\_\_\_

# PREQUISITES/COREQUISITES

All courses must be passed with a C or better

## MAC 2311/MAC 2281 Calculus I (4)

Prereqs: MAC 1147 OR MAC 1140 & MAC 1114

## MAC 2312/MAC 2282 Calculus II (4)

Prereq: MAC 2311 or MAC 2281

## MAC 2313/ MAC 2283 Multivariable Calculus (4)

Prereq: MAC 2312 or MAC 2282

## MAP 2302 (3)

Prereq: MAC 2312 or MAC 2282

## PHY 2048 Physics with Calculus I (4)

Prereq: MAC 2311 or MAC 2281

Coreq: PHY 2048L

## PHY 2048L Physics with Calculus I Lab (1)

Coreq: PHY 2048

## PHY 2049 Physics with Calculus II (4)

Prereqs: PHY 2048 & MAC 2312 or MAC 2282

## CHM 1045 General Chemistry I (3)

Coreq: CHM 1045L

## CHM 1045L General Chemistry I Lab (1)

Coreq: CHM 1045

## CHM 1046 General Chemistry II (3)

Prereqs: CHM 1045 & CHM 1045L

Coreq: CHM 1046L

## CHM 1046L General Chemistry II Lab (1)

Coreq: CHM 1046

## BSC 2010 General Biology I (3)

Coreq: BSC 2010L

## BSC 2010L General Biology I Lab (1)

Coreq: BSC 2010

## CGN 2420 Computer Tools (3)

Prereqs: MAC 2312 or MAC 2282, PHY 2048

## EGN 1110C Engineering Drawing (3)

No Prereqs

## EGS 2030 Ethics & Legal Issues (1)

No Prereqs

## EGM 3503 Applied Mechanics (3)

Prereqs: MAC 2312 or MAC 2282 & PHY 2048

## ENV 3001 Environmental Engineering (3)

Prereqs: MAC 2312 or MAC 2282, CHM 1045,

CHM 1045L

Coreq: ENV 3001L

## ENV 3001L Environmental Engineering Lab (1)

Prereqs: MAC 2312 or MAC 2282, CHM 1045,

CHM 1045L, & CGN 2420

Coreq: ENV 3001L

## CWR 3201 Fluid Mechanics (3)

Prereqs: MAC 2313 or MAC 2283, MAP 2302,

EGM 3503

Coreq: CWR 3201L

## CWR 3201 Fluid Mechanics Lab (1)

Prereqs: MAP 2302, EGN 3321

Coreq: CWR 3201

## ENV 4513 Chemistry for Env. Engineers (3)

Prereqs: CHM 1045, CHM 1045L

## EGN 3343 Thermodynamics I (3)

Prereqs: Mac 2312 or MAC 2282, PHY 2048,

CHM 1045

## EGN 3613 Engineering Economy (3)

No Prereqs

## STA 3033 Probability & Statistics (3)

Prereq: MAC 2312 or MAC 2282

## ESI 3215 Evaluation of Engineering Data (3)

Prereq: MAC 2312 or MAC 2282

## ENV 4101 Fundamentals of Air Pollution Eng. (3)

Prereqs: CWR 3201, CWR 3201L, ENV 3001,

ENV 3001L

## ENV 4351 Solid & Hazardous Waste Mgmt (3)

Prereqs: CHM 1045, CHM 1045L

## ENV 4401 Water Supply Engineering (3)

Prereqs: CWR 3201, CWR 3201L, ENV 3001,

ENV 3001L

## CWR 3540 Water Resources (3)

Prereqs: CWR 3201, CWR 3201L, STA 3033

or ESI 3215

## ENV 4551 Wastewater Treatment Engineering (3)

Prereqs: CWR 3201, CWR 3201L, ENV 3001,

ENV 3001L

## ENV 4005L Environmental Lab II (1)

Prereq: ENV 3001L, CWR 3201L, EGN 3343

## ENV 3081 Career Orientation and Project Mngt. (1)

Prereq: MAC 2312 or MAC 2282, PHY 2049

## ENV 4891 ENV. Eng Senior Design Project (3)

Prereqs: CWR 3540, ENV 4351, & ENV 4401

OR ENV 4551

Coreq: ENV 4101, ENV 4401, ENV 4551

## ENV 4960 EE Seminar to pass FE Exam (1)

Prereqs: EGN 3613, ENV 3001, EGN 3343,

EGS 2030, ENV 4351

Coreqs: ENV 4101, ENV 4401, ENV 4551

## ELECTIVES

### CES 3580 Hurricane Engineering (3)

Prereq: PHY 2048

### CGN 4321 GIS Application in Civil & Env Eng (3)

Prereqs: TTE 4201 or ENV 3001 or CWR3540

### CGN 4510 Sustainable Building Engineering (3)

Prereqs: CWR 3201, CWR 3201L

### CWR 4204 Hydraulic Engineering (3)

Prereq: CWR 3201

### CWR 4530 Modeling Appl. In Water Res Eng. (3)

Prereq: CWR 3201

Coreq: CWR 3540

### EGN 4070 Eng. For Global Sustainability (3)

Prereqs: ENV 3001 or PHY 2049 & CHM1045

### ENV 4024 Bioremediation (3)

Prereqs: ENV 3001, ENV 3001L

### ENV 4330 Hazardous Waste Assessment (3)

Prereqs: CHM 1045, CHM 1045L

### ENV 4560 Reactor Design (3)

Prereqs: ENV 3001

### ENV 4930 Special Topics: Indoor Air Quality (3)

Prereqs: ENV 3001, ENV 3001L, CWR 3201,

CWR 3201L

### ENV 4930 Special Topics: Sustainable Eng. (3)

Prereqs: ENV 3001, ENV 3001L

### GLY 3202 Earth Materials (3)

Prereq: Permission of instructor OR GLY

1010, & *chm 1045*

Coreq: GLY 3202L

### GLY 3202 Earth Materials lab (1)

Prereq: Permission of instructor OR GLY

1010/L,

Coreq: GLY 3032

### GLY 4822 Intro to Hydrogeology (3)

Prereq: Permission of instructor OR GLY 1010

OR GLY 3039, PHY 2048, MAC 2311

Coreq: none

### GLY 4822 Intro to Hydrogeology Lab (1)

Prereq: CHM 1045, GLY 1010, PHY 2048,

MAC 2311

Coreq: GLY 4822

### PCB 3043 Ecology

Prereq: BSC 2010, BSC 2011

Coreq: none

### PCB 3043 Ecology Lab (1)

Prereq: BSC 2010, BSC 2011

Coreq: PCB 3043

All of the other Earth and Biological Science Electives do not have any prerequisites or corequisites.