

**EFFECTIVE FOR STUDENTS ENTERING 2005-06**  
**EARTH SCIENCE EDUCATION PLAN OF STUDY**  
**7-12 GRADES**

**MIAMI PLAN FOR LIBERAL EDUCATION**

Foundation	Course #	Hrs	Course Title
I A	ENG 111	3	College Composition
I B	ENG 112	3	Composition and Literature
II A	Fine Arts	3	(choice)
II B	EDL 204	3	Socio-cultural Studies in Education
II C	EDP 201	3	Human Development & Learning in Social & Educational Contexts
IIA, B, or C		3	(choice)
III A	U.S. Cultures	3	(choice)
III B	World Cultures	3	(choice)
IV A&B	Bio/Phys. Sci.	9	Content courses in major (below) fulfill this requirement.
V	STA 261	4	Statistics
		9	Thematic Sequence (some science sequences fit this major.)
		3	Senior Capstone (CHM 491, GLG 411 and ZOO 400 are capstones)

At least one Miami Plan course must meet the historical (H) perspective requirement

**Content Courses (Several of the following courses also meet Miami Plan requirements.)**

**No course can count for more than one requirement. CHECK PREREQUISITES**

**Take all of the following:**

CHM 141(or 137)/144 + 142/145 College Chem.+ Labs(3,2,3,2)  
 STA 261 Statistics (4)  
 GLG 201 Mineralogy (+ lab) (fall) (4)  
 GLG 211 Chemistry of Earth Systems (fall) (3)  
 GLG 244 Oceanography (fall) (3)  
 GLG 301 Sedimentology and Stratigraphy (spring) (4)  
 PHY/AER 118 Intro to Atmospheric Science (3)  
 PHY 111 Astronomy & Space Physics (3)  
 PHY 171 College Physics (or PHY 181) (3)  
 PHY 183 Physics Lab (1)

**1. GLG plus lab(choose one course with lab):**

GLG 111 +115.L Dynamic Earth + Lab (4)  
 GLG 121 +115.L Environmental Geology + Lab (4)  
 GLG 141 +115.L Geology of U.S. National Parks + Lab (4)

**2. Environmental Science (choose one):**

BOT 131 Plants, Humanity, & Environment (3)  
 GLG 121 Environmental Geology (3)  
 IES 431 Prin./Applications of Environmental Science (3)  
 MBI 121+123 Microbial World+Experim. with Microbes (4)  
 ZOO 121 Environmental Biology (4)

**3. Evolution course (choose one):**

GLG 205 Evolution and Earth Systems (fall) (3)  
 ATH 355 Fossil Evidence of Human Evolution (3)  
 BOT 204 Evolution of Plant Diversity (4)  
 ZOO 206 Evolutionary Biology (3)

**4. Intro Biology course (choose one):**

BOT/MBI/ZOO 115 Biological Concepts (4)  
 BOT 191 General Botany (4)  
 ZOO 113 Animal Diversity (regional campus) (4)  
 ZOO 114 Prin. Of Biology (regional campus) (4)

**5. Inquiry course (choose one):**

EDT 415 Inquiring Life Science (3)  
 PHY 215 Physics by Inquiry (3)

**6. Science, Technology & Society (choose one):**

CHM 491 Chemistry in Societal Issues (3)  
 GLG 207 Water & Society (spring) (3)  
 PHL 205 Science and Culture (3)  
 PHL 376 Environmental Philosophy (3)  
 WCP 222 Natural Systems II (4)  
 WCP 333.B or 334.B Sem. In Sci/Tech/Envir (4)  
 ZOO 400 Capstone: Contemporary Issues (3)  
 EDT 374 The Nature of Science (3)

**7. Field course—SUMMER ONLY (choose one):**

GLG 411 Field Geology (6)  
 GLG 413 Tropical Marine Ecology (5)  
 GLG 414 Coastal Ecology of the Bahamas (5)  
 GLG 415 Coral Reef Ecology (5)  
 GLG 499 (GLG workshops--various topics) (5)

**\Take additional science hours, approved by your advisor, to bring total science hours to 65 credit hours.**

**PROFESSIONAL EDUCATION REQUIREMENTS**

EDT 190	Intro. to Adolescent Educ.	(3)	FSW 481A Adol. Dev- Diverse Families (3)
EDP 201	Educational Psychology	(3)	(other choices are all Miami Plan courses: AMS 101, ATH 185, BWS 185, ENG 162, ENG 248, ENG 254, GEO 201, IDS 159, or WMS 201)
EDL 204	Sociocultural Studies in Educ.	(3)	EDP 440 Integrating Technology (1)
EDL 318A	Leadership in Education	(3)	EDP 352 Inclusion of Children/Youth w/Excep. (3)

Remember--your **cohort year** is the year during which you take the two-semester sequence of methods courses. **Prerequisites to EDT 431:** admission to science cohort, EDT 190, EDP 201, EDL 204, 33 hrs of content courses, 2.5 gpa (cumulative, education core, and in content courses,) evidence of computer competency by passing CSA 141 test (or successful completion of CSA 141) 64 cr. hrs. earned.

**Prerequisite to EDT 432-** successful completion of EDT 431

Take the following course in the **Fall** term:

EDT 431 Adolescent Science Methods I (3)

Take the following courses **concurrently (Spring)**

**EDT 432** Adolescent Science Methods II (3)

**EDP 301A** Assessment/Eval. in Educ. (3)

**EDT 421A** Classroom Management (2)

**EDT 446**Integ. Literacy Across Content Areas(3)

**Student teaching prerequisites--** pass Praxis II, admission to cohort, successful completion of methods with 2.5, 47 content hrs., 2.5 gpa (cumulative, education core, and in content courses,) and 96 credit hrs. earned.

**EDT 419** Supervised Teaching (15)