

**EFFECTIVE FOR STUDENTS ENTERING 2005-06**

## LIFE SCIENCE EDUCATION PLAN OF STUDY

Grades 7-12

### 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—Miami Plan Fine Arts, Humanities, or Social Science)
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 (BOT 2, BOT 3, and ZOO 1 sequences fit this major.)
		3	Senior Capstone (CHM 491 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.) Your choices must include one course from Botany, one from Microbiology, and one from Zoology. 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)

CHM 231 Fundamentals of Organic Chemistry (4)

STA 261 Statistics (4)

**1. Intro. Biology series (choose one sequence):** (8)

BOT/MBI/ZOO 115 & 116 Biological Concepts or

ZOO 113 & 114 Animal Div. & Prin. Of Biology

(ZOO 113 & 114--regional campus only)

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

BOT 131 Plants, Humanity, & Environ. (3)

IES 431 Prin./App. Environ. Science (3)

ZOO 121 Environmental Biology (3)

ZOO 351 Environmental Education (3)

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

ATH 355 Fossil Evidence of Human Evolution (3)

BOT 204 Evolution of Plant Diversity (4)

GLG 205 Evolution and Earth Systems (fall) (3)

ZOO 206 Evolutionary Biology (3)

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

BOT 155 Field Botany (3)

BOT 204 Evolution of Plant Diversity (4)

BOT 205 Dendrology (4)

BOT 499.A Tropical Flora of the Bahamas (4)

GLG 499 International Field Geology (5)

ZOO 333 Field Ecology (2)

**5. Cell Biology course (choose one):**

BOT 203 Plant Cell & Molecular Biology (4)

MBI 201 General Microbiology (4)

ZOO 203 Introduction to Cell Biology (3)

**6. Physiology course (choose one):**

BOT 203 Cell Biology (4)

BOT 425 Plant Physiology (3)

ZOO 161 Human Physiology (4)

ZOO 305 Animal Physiology (4)

**7. Genetics course (choose one):**

BOT 203 Cell Biology (4)

BOT 204 Evol. of Plant Diversity (4)

BOT/ZOO 342 Genetics (3)

**8. Ecology course (choose one):**

BOT 171 Ecology of North America (3)

BOT 401 Plant Ecology (3)

MBI 475 Microbial Ecology (3)

ZOO 204 Fundamentals of Ecology (3)

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

EDT 415 Inquiring Life Science (3)

PHY 215 Physics by Inquiry (3)

**10. Intro. Geology course (choose one pair):**

GLG 111+ 115.L Dynamic Earth + Lab (4)

GLG 121 + 115.L Environmental Geology + Lab (4)

GLG 141 + 115.L Geol. of U.S. Nat'l Parks + Lab (4)

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

CHM 491 Chemistry in Societal Issues (3)

GLG 207 Water and Society (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)

### PROFESSIONAL EDUCATION REQUIREMENTS

EDT 190 Intro. to Adolescent Educ. (3)

EDP 201 Educational Psychology (3)

EDL 204 Sociocultural Studies in Educ. (3)

EDL 318A Leadership in Education (3)

FSW 481A Adol. Dev- Diverse Families (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)

EDP 440 Integrating Technology (1)

EDP 352 Inclusion of Children/Youth w/Exceptionalities(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)