

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

MIAMI PLAN FOR LIBERAL EDUCATION

Foundation	Course #	H r s	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 (BOT 2, BOT 3, GLG 1, and ZOO 1 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.) 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

All of the following:

CHM 141(or 137)/144 + 142/145 College Chem.+ Labs(3,2,3,2)	6. Genetics course (choose one):	
AER/PHY 118 Intro to Atmospheric Science(3)	BOT 204 Evol. of Plant Diversity	(4)
AER 253 Basic Meteorology Lab (fall only)	BOT 203 Cell Biology	(4)
STA 261 Statistics	(1) BOT/ZOO 342 Genetics	(3)
GEO 121 Introduction to Physical Geography	7. Ecology course (choose one):	
PHY 111 Astronomy and Space Physics	BOT 171 Ecology of North America	(3)
1. Introductory Biology series (choose one sequence):	BOT 401 Plant Ecology	(3)
BOT/MBI/ZOO 115 & 116 Biological Concepts	MBI 475 Microbial Ecology	(3)
ZOO 113 & 114 Animal Div. & Prin. Of Biology (regional campus)	ZOO 204 Fundamentals of Ecology	(3)
2. Environmental Science (choose one):	8. Inquiry course (choose one):	
BOT 131 Plants, Humanity, & Environ.	EDT 415 Inquiring Life Science	(3)
IES 431 Prin./App. Environ. Science	PHY 215 Physics by Inquiry	(3)
ZOO 121 Environmental Biology (4)	9. Introductory GLG course plus lab (choose one):	
ZOO 351 Environmental Education	GLG 111+ 115.L Dynamic Earth + Lab	(4)
3. Evolution course (choose one):	GLG 121 + 115.L Environmental Geology + Lab	(4)
GLG 205 Evolution and Earth Systems (fall)	GLG 141 + 115.L Geology of U.S. National Parks +Lab(4)	
ATH 355 Fossil Evidence of Human Evolution	10. Earth science elective (choose one):	
BOT 204 Evolution of Plan Diversity	GLG 201 Mineralogy (+ lab) (fall)	(4)
ZOO 206 Evolutionary Biology	GLG 205 Evolution and Earth Systems (fall)	(3)
4. Field Course (choose one):	GLG 244 Oceanography (fall)	(3)
BOT 155 Field Botany	GLG 301 Sedimentology and Stratigraphy (spring)	(4)
BOT 204 Evolution of Plan Diversity	GLG 322 Structural Geology (fall)	(4)
BOT 205 Dendrology	GLG 401 Global Climate Change (spring)	(4)
GLG 411 Field Geology (summer only)	GLG 402 Geomicrobiology (spring)	(3)
GLG 413 Tropical Marine Ecology (summer only)	GLG 404 Geodynamics and Tectonic Geomorphology	(1-3)
GLG 414 Coastal Ecology of the Bahamas(summer only)(5)	GLG 408 Introduction to Hydrogeology (spring)	(4)
GLG 415 Coral Reef Ecology(summer only)	11. Science, Technology, & Society course (choose one):	
5. Physiology course (choose one):	CHM 491 Chemistry in Societal Issues	(3)
BOT 203 Cell Biology	GLG 207 Water and Society	(3)
BOT 425 Fund. Of Plant Physiology	PHL 376 Environmental Philosophy	(3)
ZOO 161 Human Physiology	PHL 205 Science and Culture	(3)
ZOO 305 Animal Physiology	PHY 121 Energy & Society	(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)	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 446Integ. 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)