

**EFFECTIVE FOR STUDENTS ENTERING 2005-06**

**PHYSICAL SCIENCE EDUCATION PLAN OF STUDY  
FOR THOSE WHO BEGIN WITH CHEMISTRY (see other side)  
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	MTH 151	5	Calculus I
		9	Thematic Sequence (CHM 1 and PHY 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.)**

**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 241/244+242/245 Organic Chem. + Labs (3,2,3,2)  
 CHM 363/364 Analytical Chemistry + Lab (5)  
 MTH 151 Calculus I (5)  
 MTH 251 Calculus II (4)  
 MTH 252 Calculus III (4)  
 PHY 181/182/183/184 The Physical World + Labs (4,4,1,1)  
 PHY 291/293 Contemporary Physics + Lab (4,2)  
 PHY 292/294 Electronic Instrumentation + Lab (3,2)

**1. Introductory Biology course (choose one):**

BOT/MBI/ZOO 115 Biological Concepts (4)  
 BOT/MBI/ZOO 116 Biological Concepts (4)  
 BOT 191 General Botany (4)  
 ZOO 113 Animal Diversity (regional campus) (4)  
 ZOO 114 Prin. Of Biology (regional campus) (4)  
 MBI 121/123 Microbial World + Exper. w. Microbes Lab (4)

**2. Geology course with lab (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. National Parks+Lab(4)

**3. Science, technology & society (choose one):**

CHM 491 Chemistry in Societal Issues (3)  
 GLG 207 Water & 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 Nature of Science (3)

**4. Choose one:**

CHM 471 Physical Chemistry (3)  
 PHY 286 Intro. To Computational Physics (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 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)