

# Environmental Sciences Pre-Education Option ( $\geq 27$ credits)

Revised 1/2008

The Pre-Education Option prepares students for entry into OSU's Education Double Degree or the MS Professional Teacher Education Programs. However, be sure to check the pre-requisites at any school you apply to for the most up-to-date information.

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	Prerequisites/ Notes	Credits	Check
<b>Orientation:</b> <i>Strongly suggested but not required</i>			
SED 407	Science and Math Education Orientation		
<b>Practicum Experience (6 credits):</b> Practicums fulfill the " <b>Observational Experience</b> " requirement for the Environmental Sciences program.			
SED 309	Field Practicum: Science & Mathematics	Elementary/MS	3
SED 409	Field Practicum: Science & Mathematics	MS/HS	3
SED 406	Winter Classroom Immersion or September Experience		1-3
<b>Education Courses (5-6 credits):</b>			
SED 412	Technology Foundations for Teaching Math and Science		3
SED 413	Science Materials and Laboratories		3
SED 414	Mathematics Materials and Laboratories		3
TCE 216	Purpose Structure and Function of Education in a Democracy		3
TCE 219	Multicultural Issues in Educational Settings		2
<b>Human Development Course (3-4 credits):</b>			
TCE 253	Learning Across the Life Spans		3
TCE 512	Psychology of the Adolescent		3
HDFS 313	Adolescent Development	Enforced: HDFS 311	4
<b>Select either the Biology, Integrated Sciences, or Mathematics Track on the second page.</b>		$\geq 11$	
<b>Total Credits</b>		<b><math>\geq 27</math></b>	

## Course Selection Guide:

	Ed Double Degree	Professional Teacher Ed Program
<u>Education Courses</u>	TCE 216 TCE 219	SED 412 SED 413 or SED 414
<u>Human Dev. Courses</u>	TCE 253	HDFS 313 or TCE 512

**Select either the Biology, Integrated Sciences, or Mathematics Track from below**

<b>Biology Track (11-13)</b>				
BI 311	Genetics	1 year Biology & Chemistry, BI 314 strongly recommended	4	
BI 445	Evolution	BI 311 and BI 370	3	
Select 1-2 additional upper division science course (s) from the following departments: BB, BI, BOT, HSTS, MB, OC, or Z				
1.				
2.				

<b>Integrated Science Track (11-13) (see note below)</b>				
GEO 201	Physical Geology		4	
GEO 203	Evolution of Planet Earth		4	
Select 1-2 additional upper division science course(s) from the following departments: BB, BI, BOT, CH, GEO, MZ, or Z				
1.				
2.				

<sup>NOTE</sup> Take **GEO 202** for the Lithosphere requirement under 'Natural Environmental Systems', Section C2, in the Environmental Sciences and Humanities Core.

<b>Mathematics Track (15 credits)</b>				
MTH 211	Foundations of Elementary Mathematics	MTH 95	4	
MTH 212	Foundations of Elementary Mathematics	MTH 211	4	
MTH 361	Introduction to Probability	MTH 253 or MTH 306	3	
MTH 390	Foundations of Elementary Mathematics	MTH 212	4	