



**SCIENCES DEPARTMENT  
BROAD FIELD SCIENCE MAJOR  
EA/A TEACHER EDUCATION**

BROAD FIELD SCIENCE MAJOR for EARLY ADOLESCENCE/ADOLESCENCE TEACHER EDUCATION - CURRICULUM*		credits	CONCENTRATION	
			BIO	CHE
	R = required r = recommended e = elective			
✓	<b>BIO credits</b>		<b>24</b>	<b>16</b>
	BIO 103 Introductory Biology	4	R	R
			12 credits at 200 level or above	8 credits at 200 level or above
			8 credits at 300 level or above	4 credits at 300 level or above
	BIO 211 Human Anatomy	4	e	e
	BIO 212 Human Physiology	4	r	r
	BIO 214 Zoology	4	r	r
	BIO 215 Botany	4	r	e
	BIO 216 Environmental Science	4	e	e
	BIO 220 Contemporary Environmental Issues	2	e	e
	BIO 256 Developmental Biology	4	e	e
	BIO 325 Microbiology	4	e	e
	BIO 337 Genetics	3	r	r
	BIO 338 Molecular Techniques	2	r	r
	BIO 340 Immunology	2	e	e
	BIO 442 Advanced Microbiology	4	e	e
	BIO 457 Ecology	4	e	e
✓	<b>CHE credits</b>		<b>16</b>	<b>24</b>
	CHE 113 Chemical Principles I	4	R	R
	CHE 114 Chemical Principles II	4	R	R
			8 credits at 200 level or above	16 credits at 200 level or above
	CHE 216 Environmental Science	4	e	e
	CHE 222 Instrumental Quantitative Analysis	4	e	e
	CHE 333 Organic Chemistry I	4	e	R
	CHE 334 Organic Chemistry II	4	e	R
	CHE 338 Molecular Techniques	2	e	R
	CHE 352 Biochemistry	3	e	R
✓	<b>EARTH SCIENCE</b>		<b>6</b>	<b>6</b>
	GEO 112 Introductory Geoscience	3	e	e
	PHY 210 Astronomy	2	e	e
	PHY 211 Meteorology	2	e	e
	SCI 305 Natural Sciences Field Studies	3-4	e	e
✓	<b>MAT credits</b>		<b>4</b>	<b>4</b>
	MAT 216 Elementary Statistics	4	r	r
✓	<b>PHY credits</b>		<b>8</b>	<b>8</b>
	PHY 201 General Physics I	4	R	R
	PHY 202 General Physics II	4	R	R
	<b>TOTAL credits</b>		<b>60</b>	<b>60</b>

\* Additional courses are required by the Education Department for Early Adolescence/Adolescence Education.