

**Biological Sciences Department**  
**Environmental Biology Major-Environmental Microbiology & Biotechnology Emphasis**  
**Curriculum Year: 2012-2013**

*Your department has developed this road plan, taking into account prerequisites and schedule restrictions.  
 You should pay attention to these concerns when deviating from this plan.*

Year 1	Fall	Units	Winter	Units	Spring	Units	Comment	
	<b>BIO 121/121L</b> GE Area B2, B3 & Support	5	<b>BIO 122/122L</b> Major Core	5	<b>BIO 123/123L</b> Major Core	5		<i>SCI 101/101A and SCI 102/102A together fulfill GE Area E.</i>
	<b>CHM 121/121L</b> GE Area B1, B3 & Support	4	<b>CHM 122/122L</b> Major Support	4	<b>CHM 123/123L</b> Major Support	4		
	<b>ENG 104</b> GE Area A1 & Support	4	<b>ENG 105</b> GE Area A3 & Support	4	<b>MAT 120</b> GE Area B4 & Support	4		
	<b>SCI 101/101A</b>	2	<b>SCI 102/102A</b>	2				
<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>13</b>			
<b>Total Units for Year</b>						<b>43</b>		

Year 2	Fall	Units	Winter	Units	Spring	Units	Comment	
	<b>BOT 201/201L</b> Major Core	4	<b>ZOO 201/201L</b> Major Core	5	<b>BIO 211/211L</b> Major Core	5		<i>*Recommended to take STA 120 before taking BIO 211/211L</i>
	<b>MIC 201/201L</b> Major Support	4	<b>PHY 121/121L</b> Major Support	4	<b>PHY 122/122L</b> Major Support	4		
	<b>PLS 201</b> GE Area D1a	4	<b>CHM 314/317L</b> Major Support	4	<b>CHM 315/318L</b> Major Support	4		
	GE Area A2 Any approved course in this area	4	GE Area E (unless SCI 101/A & SCI 102/L taken in year 1)	(4)	<b>HST 201</b> GE Area D1b	4		
<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>13-17</b>	<b>Total Units</b>	<b>17</b>			
<b>Total Units for Year</b>						<b>46-50</b>		

Year 3	Fall	Units	Winter	Units	Spring	Units	Comment
	<b>BIO 325/325L</b> Major Core	4	<b>BIO 303</b> Major Core	4	Upper Div Elective Major Core	4	Upper Division Core Electives must include 30 units with at least 18 units from one cluster and 12 units from one or both of the other clusters. At least 16 upper division electives must be taken at the 400 or 500 level.  The upper division core cluster courses are listed on the back of the curriculum sheet.  One course must be completed in each of the GE areas C1, C2, C3, D2, and D3.
	<b>CHM 316</b> Major Support	3	<b>CHM 327/327L</b> Major Support	4	<b>CHM 328/328L</b> Major Support	4	
	GE Any approved course in area C1-3 or D2-3	4	<b>PLT 231/231L</b> Major Support	4	<b>BIO 304</b> GE Synthesis Area B5 & Support	4	
	GE Any approved course in area C1-3 or D2-3	4	GE Any approved course in area C1-3 or D2-3	4	GE Any approved course in area C1-3 or D2-3	4	
	<i>Take the Graduation Writing Test</i>						
<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>16</b>		
					<b>Total Units for Year</b>	<b>48</b>	

Year 4	Fall	Units	Winter	Units	Spring	Units	Comment
	<b>BIO 441</b> <b>BIO 461</b> Select one course Major Core	2	Upper Div. Elective Major Core	4-5	Upper Div. Elective Major Core	4-5	Upper Division Core Electives must include 30 units with at least 18 units from one cluster and 12 units from one or both of the other clusters. At least 16 upper division electives must be taken at the 400 or 500 level.  The upper division core cluster courses are listed on the back of the curriculum sheet.
	<b>BIO 413</b> Major Core	4	<b>RS 302</b> Major Support & GE D4	4	Upper Div. Elective Major Core	4-5	
	Upper Div. Elective <b>Major Core</b>	4	Upper Div. Elective Major Core	4	Upper Division Elective Major Core	4-5	
	GE Any approved course in area C1-3 or D2-3	4	GE Synthesis Any approved course in area C4	4			
					<i>File an application to graduate</i>		
<b>Total Units</b>	<b>14</b>	<b>Total Units</b>	<b>16-17</b>	<b>Total Units</b>	<b>12-15</b>		
					<b>Total Units for Year</b>	<b>42-46</b>	

<b>Total Units on Plan</b>	<b>180</b>
Major Core Units	67
Major Support/Emphasis Units	45
General Education Units	68
Unrestricted Elective Units	0