

**MARINE EMPHASIS -- BACHELOR OF SCIENCE IN BIOLOGY (2007-2008 Catalog)**

Name \_\_\_\_\_ Student Number W \_\_\_\_\_

<b>Supporting courses: 42 credits required.</b>			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Chem 121 – General Chemistry I (5 cr)			
Chem 122 – General Chemistry II (5 cr)			
Chem 123 – General Chemistry III (4 cr)			
<b>Or</b> Honors Chemistry 125, 126, 225 (15 cr) [see #2 on back]			
Chem 351 – Organic Chemistry I (4 cr)			
Chem 352 – Organic Chemistry II (4 cr)			
Chem 353 – Organic Chemistry III (3 cr) [recommended]			
Chem 354 – Organic Chemistry Lab I (2 cr) [recommended]			
Phys 114 – Physics I (5 cr)			
Phys 115 – Physics II (5 cr)			
Phys 116 – Physics III (5 cr) [recommended]			
<b>Or</b> Yr of Physics with Calculus (15 cr) [see #2 on back]			
Math 124 – Calculus I (5 cr)			
Math 125 – Calculus II (5 cr) [recommended]			
Geol 211—Physical Geology (5 cr)			
<b>Supporting Courses Subtotal</b>			

**53 Total Basic, Breadth, Depth, Elective credits to complete this major**

<b>Basic Requirements: 14 credits required.</b>			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Biol 204 – Evolution, Ecology, & Biodiversity (4 cr)			
Biol 205 – Cellular & Molecular (5 cr)			
Biol 206 – Organismal Biology (5 cr)			
<b>Basic Biology Courses Subtotal</b>			
<b>Breadth Requirements: 20 credits required</b>			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Biol 321 – Genetics (4 cr)			
Biol 323 – Cell & Molecular Biology (4 cr)			
Biol 325 – Ecology (3 cr)			
Biol 340 – Biometrics (5 cr)			
Biol 432 –Evolutionary Biology (4 cr)			
<b>Breadth Biology Courses Subtotal</b>			
<b>Depth Requirements: 16-17 credits</b>			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Biol 326 – Ecology Lab (2 cr)			
Three courses from Taxa and Ecology categories listed below.			
Taxa: Biol 456, 460, 464			
Ecology: Biol 406, 407			
<b>Depth Biology Courses Subtotal</b>			
<b>Electives: 2 credits</b> Additional elective credits can be taken to fulfill university graduation requirements.			
* Elective can be any course under Depth Requirements.			
* Biol 403, 405; Chem 333 or Esci 361a&b; Esci 326, 421a&b, 430a&b, 433a&b			
* No more than 3 credits combined in Biol 395, 496, 498 & no more than 4 credits combined in Biol 494 & 495 can apply to this category.			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
<b>Elective Biology Courses Subtotal</b>			
<b>Basic, Breadth, Depth, Elective Courses Subtotal</b>			

**Major Evaluation for Graduation: 95 credits required to complete this major**

Supporting Course Subtotal (42 credits required)		<b>Qtr/Yr you PLAN TO GRADUATE:</b>
Biology Basic, Breadth, Depth, Elective Subtotal (53 credits required)		
<b>TOTAL CREDITS</b>		

Biology Adviser Signature \_\_\_\_\_ Date \_\_\_\_\_

Biology Chair \_\_\_\_\_

Date \_\_\_\_\_

## INSTRUCTIONS FOR MARINE EMPHASIS – BACHELOR OF SCIENCE IN BIOLOGY

1. If you are using this sheet to plan your course work.

*Keep a working copy of your major checklist with your transcript/s from other colleges and any waivers granted.
*Keep your checklist up-to-date with the coursework you have completed and that is in progress. Note tentative plans that you and your adviser have discussed.
*Bring your checklist every time you talk with your adviser.
*See your adviser at least 2-3 times a year: once in Fall Quarter to plan Winter, Spring Quarter classes; maybe in Winter Quarter to plan internships; once in Spring Quarter to plan Summer and Fall Quarters.

2. Instructions on how to complete this checklist.

*As a working copy, use pencil to complete this form. When you use this form to apply for graduation, this form must be completed in INK.
*The Marine emphasis is a 95 credit major. Only 42 credits may be used for supporting courses, but you may wish to take more Organic Chemistry or Calculus.
*You may wish to take the Physics with Calculus series. Remember that you must take the complete year of 15 credits. List Phys 121, 131 as a substitute for Phys 114, Phys 122, 132 as a substitute for Phys 115, and the final Phys 123, 133 as Phys 116. Count this last quarter as additional support classes.
*You may take the Honors Chemistry series instead of Chem 121, 122, 123. List these as substitute courses.

3. Important things to keep in mind as you plan your classes.

You are responsible to know what you need to do to graduate from WWU. Check these requirements at: <a href="http://www.wwu.edu/depts/registrar/degree_requirements.shtml">http://www.wwu.edu/depts/registrar/degree_requirements.shtml</a> .
You must earn a C- or higher in every course applied towards your major.
You need one upper-division <b>Writing Proficiency</b> course in any discipline to graduate from WWU.
50% or 45 credits in your major must be taken at WWU.
To graduate with a bachelor's degree from WWU, you will need <b>60 credits</b> of 300- & 400-level classes. The number of 300- & 400-level credits required for this major is only <b>43-45 credits</b> . You may take more credits in biology, develop a minor, or take more chemistry or another discipline to reach the 60 credit requirement. Ask your Biology Adviser for options.

4. Table to Calculate 300- & 400-level classes

1 <sup>st</sup> Column		2 <sup>nd</sup> Column	
300-/400-Level Course	Credits	300-/400-Level Course	Credits
		<b>TOTAL NUMBER OF CREDITS</b>	

5. Application for Graduation!!!

<b>[Allow 2-3 weeks for this process]</b> Two Quarters before you plan to graduate, totally complete your major checklist as if you have completed all your courses. Be sure that you noted the quarter/year the course is completed or any substitutes granted. Submit your major checklist (completed in INK) for your adviser's signature. Bring the signed checklist to Nancy Kirchgatter in the Biology Department Office. In a few days, pick up your checklist.
<b>Make a copy of your checklist</b> with signatures of your adviser and department chair for your records and to remind you of the final courses approved for completion of your major.
Take your major checklist to the Registrar's Office.