

BIOLOGY/MATHEMATICS BS (2007-2008 Catalog)

Name _____ Student Number W _____

Supporting courses: 29 credits required.			
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)			
Or Honors Chemistry 125, 126, 225 (15 cr) [see #2 on back]			
Chem 251 – Elementary Organic Chemistry (cr 5)			
Phys 121/131 – Physics w/Calculus w/lab (5 cr)			
Phys 122/132 – Physics w/Calculus w/lab (5 cr)			
Supporting Courses Subtotal			

75 Basic, Breadth, Depth, Elective credits to complete this major

Basic Biology Requirements: 14 credits required.			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Biol 204 – Evolution, Ecology & Biodiversity (4 cr)			
Biol 205 – Cell & Molecular (5 cr)			
Biol 206 – Organismal Biology (5 cr)			
Basic Biology Courses Subtotal			
Basic Mathematics requirements: 15 credits required			
Math 124 – Calculus & Analytic Geometry [or Math 134] (5 cr)			
Math 125 – Calculus & Analytic Geometry [or Math 135] (5 cr)			
Math 224 – Multivariable Calculus & Geometry (5 cr)			
Basic Mathematics Courses Subtotal			
Breadth Biology Requirements: 15 credits required			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Biol 321 – Genetics (4 cr)			
Biol 323 – Cellular & Molecular Biology (4 cr)			
Biol 325- Ecology (3 cr)			
Biol 432 – Evolutionary Biology (4 cr)			
Breadth Biology Courses Subtotal			
Breadth Mathematics Requirements: 23-24 credits required			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Math 203 – Linear Algebra & Differ. Equations I (4 cr) [203/303series] Or Math 204 – Elem. Linear Algebra (4 cr) [204/331 series]			
Math 303 – Linear Algebra & Differ. Equations II (4 cr) Or Math 331 – Ordinary Differ. Equations (4 cr)			
Math 341 – Probability & Statistics (4 cr)			
Math 342 – Statistical Methods (4 cr)			
Math 432 – Syst. Of Differ. Equations (4 cr)			
Computer Sci 140 – Programming (4 cr) Or Computer Sci 141 – Programming I (4 cr) Or Math 207 – Math Computing (3 cr)			
Breadth Mathematics Courses Subtotal			
Elective Requirements: about 7-8 credits under advisement from biology, math or math/computer science			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Elective Courses Subtotal			
Basic, Breadth, Elective, Subtotal			

Major Evaluation for Graduation: 104-105 credits required to complete this major			
Supporting Course Subtotal (29 required credits)		Qtr/Yr you PLAN TO GRADUATE:	
Basic, Breadth, Elective, Completion Subtotal (75 minimum credits)			
TOTAL CREDITS			

Biol/Math Adviser Signature

Biology Chair

Date

INSTRUCTIONS FOR BIOLOGY/MATHEMATICS – BACHELOR OF SCIENCE

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 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 Biology/Mathematics degree is a 109 credit major. Only 24 credits may be used for supporting courses, but you may wish to take more Organic Chemistry or Physics.
*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: http://www.wvu.edu/depts/registrar/degree_requirements.shtml .
You must earn a C- or higher in every course applied towards your major.
You need one Writing Proficiency course in any discipline to graduate from WWU.
50% or 55 credits in your major must be taken at WWU.
To graduate with a bachelor's degree from WWU, you will need 60 credits of 300- & 400-level classes. The number of 300- & 400-level credits required for this major is only 30 credits . 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 st Column		2 nd Column	
300-/400-Level Course	Credits	300-/400-Level Course	Credits
		TOTAL NUMBER OF CREDITS	

5. Application for Graduation!!!

[Allow 2-3 weeks for this process] 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.
Make a copy of your checklist 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.