

Biology (2010-2011)

Secondary Teacher Certification

This is a **general curriculum** guide and is not applicable to every student and is not a replacement for meeting with your advisor.

-Assumes that the MTH 110 requirement has been fulfilled-

Fall Semester – Year One	credits	Winter Semester- Year One	credits
BIO 120: General Biology I (<i>Gen Ed</i>)	4	BIO 121: General Biology II	4
CHM 115: Principles of Chemistry I (<i>Gen Ed</i>)	5	CHM 116: Principles of Chemistry II	5
MTH 122: College Algebra (<i>Gen Ed</i>)	3	WRT 150: Strategies in Writing	4
Gen Ed.	3	Gen Ed.	3
Total	15	Total	16
Fall Semester – Year Two	credits	Winter Semester – Year Two	credits
BIO 215: General Ecology	4	BIO 375/376: Genetics/Genetics Lab	4
MTH 123: Trigonometry	3	CHM 232: Biological Chemistry Or ²	4
CHM 231: Introductory Organic Chemistry Or ²	4	CHM 242: Organic Chemistry for Life Science II	4
CHM 241: Organic Chemistry for Life Science I	4	MTH Cognate ¹	3
PSY 101: Introduction to Psychology (<i>Gen Ed</i>)	3	ED 315: Diverse Perspectives on Education (<i>Gen Ed.</i>)*	3
Total	14	Total	14
Spring Semester – Year Two	credits	Summer Semester – Year Two	credits
Minor Elective	3	Minor Elective	3
Minor Elective	3		
Total	6	Total	3
Fall Semester – Year Three	credits	Winter Semester – Year Three	credits
BIO 405/406: Cell and Molecular Biology w/lab	6	PHY 221: General Physics II	5
PHY 220: General Physics I	5	WRT 305: Writing in the Disciplines ³	4
ED 337: Introduction to Learning and Assessment*	3	Gen Ed.	3
PSY 301: Child Development*	3	Gen Ed.	3
Total	17	Total	15
Spring Semester – Year Three	credits	Summer Semester – Year Three	credits
Gen Ed.	3	Minor Elective	3
Minor Elective	3	Minor Elective	3
Total	6	Total	6
Fall Semester – Year Four	credits	Winter Semester – Year Four	credits
BIO elective ⁴	4	BIO 495: Evolutionary Biology	3
BIO elective	3	BIO elective ⁴	3
Gen Ed. or Theme	3	BIO elective	3
Gen Ed. or Theme	3	Gen Ed. or Theme	3
Minor Elective	3	Minor Elective	3
Total	16	Total	15
Fall Semester – Year Five	credits	Winter Semester – Year Five	credits
ED 331: Methods and Strategies for Secondary Teaching	5	ED 431: Student Teaching, Secondary	10
ED 310: Organizing and Managing Classroom Environments	3	ED 485: The Context of Educational Issues	3
ED 321: Content Area Literacy	3		
ED 370: Technology in Education**	3		
ED 379: Universal Design for Learning: Secondary**	3		
Total	17	Total	13

Notes:

* These courses are prerequisites to the College of Education. Student must have a minimum GPA of 2.7 in these classes, and both their major and minor. Classes must be completed prior to applying to the College of Education. A student selecting secondary education must also have a teachable minor. Consult with your advisor!

** ED 370 and/or ED 379 may be taken during or after Assisting but must be taken before Student Teaching.

¹ One course must be selected from MTH 125: Survey of Calculus, MTH 201: Calculus and Analytical Geometry, or STA 215: Introductory Applied Statistics.

² If you plan to attend graduate or professional school, you will want to complete the CHM 241/242 sequence.

³ Students who pass out of WRT 305 have room to take a Gen Ed., Theme, or elective course in this semester.

⁴ One biology elective must be taken from an animal biology course and one from a plant biology course.

Special Notes:

A. This is a **general** curriculum guide and will not work for everyone, especially those students who have AP or CLEP credit.

B. Courses that have (*Gen Ed*) written after them are classes that are required in the major and also fulfill a section of the general education program.

C. Remember to fulfill your 2 SWS requirements; 1 can be taken in the gen ed. program and 1 in your major.

D. Some classes are in multiple sections within the gen ed. If you take a course that can be counted in two categories, you can open up 1-2 more spots for biology electives.

E. You must have **120 credits** to graduate from Grand Valley State University.

It is imperative to meet with your faculty advisor or an advisor in the CLAS Academic Advising Center early in your career. The CLAS Academic Advising Center is located in C-1-140 MAK, 616-331-8585.

Online at: <http://www.gvsu.edu/clasadvising>

Prepared by CLAS Academic Advising Center – 2/4/10