

Biology (2010-2011)

Animal Emphasis

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	4
CHM 231: Introductory Organic Chemistry	4	Or²	
Or²		CHM 242: Organic Chemistry for Life Science II	4
CHM 241: Organic Chemistry for Life Science I	4	MTH Cognate ¹	3
Gen Ed.	3	Gen Ed.	3
Total	14	Total	17
Fall Semester – Year Three	credits	Winter Semester – Year Three	credits
BIO 222: Natural History of Vertebrates	3	BIO 232: Natural History of Invertebrates	3
BIO 405/406: Cell and Molecular Biology w/lab	6	PHY 221: General Physics II ³	5
PHY 220: General Physics I	5	WRT 305: Writing in the Disciplines ⁴	3
Total	14	Total	14
Fall Semester – Year Four	credits	Winter Semester – Year Four	credits
BIO 432: Comparative Animal Physiology	4	BIO 302: Comparative Vertebrate Anatomy	4
BIO elective ⁵	3	BIO 495: Evolutionary Biology	3
Elective	3	Elective	3
Gen Ed. or Theme	3	Gen Ed. or Theme	3
Gen Ed. or Theme	3	Gen Ed. or Theme	3
Total	16	Total	16

Notes:

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 PHY 221 is not required, but students planning to attend graduate school, professional school, or secondary teacher certification should complete a full year of physics

⁴ Students who pass out of WRT 305 have room to take a GenEd, Theme, or elective course in this semester.

⁵ One elective must be selected from the plant biology category.

Special Notes:

- This is a **general** curriculum guide and will not work for everyone, especially for those who have AP or CLEP credit.
- Courses that have (*Gen Ed*) written after them are specific courses that are required in the major and also fulfill a section of the general education program.
- Remember to fulfill your 2 SWS requirements. These must be taken from two different schools or departments.
- Some classes are in multiple sections within the general education program. If you take a course that can be counted in two categories, this can open up 1-2 more spots for biology electives.
- The following courses may be of interest when selecting an Animal Biology Emphasis: BIO 342: Ornithology, BIO 352: Animal Behavior, BIO 362: Fisheries Biology, BIO 372: Aquatic Insects, BIO 422: Embryology, BIO 442: Fish Ecology, BIO 572: Field Zoology (with permission), BMS 208: Human Anatomy, BMS 309: Laboratory in Human Anatomy, BMS 290: Human Physiology, BMS 291: Lab in Human Physiology.
- 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