

**Grand Valley State University**  
**CLAS Academic Advising Center**  
**C-1-140 Mackinac Hall**  
**616-331-8585**

**Teaching Endorsement Planned Program**  
**Biology Major – Secondary Education<sup>4</sup>**

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

Email Address: \_\_\_\_\_

SID: \_\_\_\_\_

Phone: \_\_\_\_\_

Transfer Institution(s): \_\_\_\_\_

**Biology Major – Required Courses**

Course Number	✓	Course Name	Credits	Completed	Scheduled	Grade	Quality Points
BIO 120		General Biology I	4				
BIO 121		General Biology II	4				
BIO 215		General Ecology	4				
BIO 375		Genetics	3				
BIO 376		Genetics Laboratory	1				
BIO 405		Cell and Molecular Biology	4				
BIO 406		Cell and Molecular Biology Lab	2				
BIO 495		Evolutionary Biology	3				
		<b>Biology Electives – Plant (chose one)<sup>1</sup></b>					
BIO 303		Plants and Fungi					
BIO 323		Aquatic Plants	4				
BIO 333		Systematic Botany	3				
BIO 403		Plant Structure and Function	3				
BIO 413		Freshwater Algae	4				
BIO 423		Plant Biotechnology	3				
BIO 573		Plants of the Great Lakes Area (with permission)	3				
		<b>Biology Electives – Animal (choose one)<sup>2</sup></b>					
BIO 222		Natural History of Vertebrates	3				
BIO 232		Natural History of Invertebrates	3				
BIO 272		Insect Biology and Diversity	3				
BIO 302		Comparative Vertebrate Anatomy	4				
BIO 342		Ornithology	3				
BIO 352		Animal Behavior	3				
BIO 362		Fisheries Biology	4				
BIO 412		Mammalogy	4				
BIO 422		Embryology	3				
BIO 432		Comparative Animal Physiology	4				
BIO 572		Field Zoology (with permission)	3				
BMS 208 & 309		Human Anatomy & Laboratory in Human Anatomy	3/1				
BMS 290 & 291		Human Physiology & Laboratory in Human Physiology	3/1				
CHM 115		Principles of Chemistry I	5				
CHM 116		Principles of Chemistry II	5				
CHM 231 <sup>2</sup>		Introduction to Organic Chemistry <b>OR</b>	4				
CHM 241		Organic Chemistry for Life Sciences I	4				

Course Number	✓	Course Name	Credits	Completed	Scheduled	Grade	Quality Points
CHM 232		Biological Chemistry <b>OR</b>	4				
CHM 242		Organic Chemistry for Life Sciences II	4				
STA 215		Introductory Applied Statistics <b>OR</b>	3				
MTH 125		Survey of Calculus <b>OR</b>	3				
MTH 201		Calculus I	5				
PHY 200		Physics for the Life Sciences <b>OR</b>	4				
PHY 220		General Physics I <b>OR</b>	5				
PHY 230		Principles of Physics I <sup>3</sup>	5				

**Total Credits Needed: 52 - 56**

**Cumulative GPA:** \_\_\_\_\_

**Special Considerations:**

<sup>1</sup> BIO 103, 105, 107, 109, 205, 310, 311 and 355 are excluded from the major.

<sup>2</sup> If CHM 231 is chosen, CHM 232 must be taken. If CHM 241 is chosen, CHM 242 must be taken

<sup>3</sup> Secondary Education students are encouraged to take both PHY 220 & 221 or PHY 230 & 231.

<sup>4</sup> Students with a bachelor's degree and a biology major from another institution must earn at least 5 credits in Biology from GVSU.

<sup>5</sup> Students must earn at least 38 credits in biology to complete the major requirements. Some biomedical and health sciences courses may counted towards major elective – please see an advisor for approval.

**Notes:**

---



---



---



---

**Departmental Approval:** \_\_\_\_\_ **Date** \_\_\_\_\_

**1 copy student; 1 copy CLAS Advising Center File; 1 copy College of Education; 1 copy Major Program Advisor**

**Next Steps:**

1. Apply to Grand Valley State University if you have undergraduate courses remaining. Click here for a link to the Admissions Application: <http://admissions.gvsu.edu/admissions/undergrad.asp>
2. Successfully complete all coursework
3. Successfully complete the State required test in your endorsement area
4. Complete the “endorsement application” form from the Registrar’s Office.
5. Submit official transcripts from all colleges and universities you have attended (do not resend if Grand Valley has all of your transcripts).
6. A returned approved Endorsement Audit from the appropriate academic department.

After all paperwork has been received and the recommendation has been made to the State, the Registrar’s Office will mail you a 90-day letter verifying the completion of your new endorsement. The State will send you the fee for a new endorsement. Once you pay the fee, the State will mail you a newly endorsed teaching certificate.

