

**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>1, 4</sup>**

Student Name:

Date:

Email Address:

G#:

Transfer Institution(s):

Key:          ✓ - Completed or In Progress      W - Waived      Highlighted - Still Needs to be Completed

**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				
BIO 243		<b>Biology Electives – Plant (choose one)</b> Plant Identification and Natural History	3				
BIO 303		Plant Morphology	4				
BIO 323		Aquatic and Wetlands Plants	3				
BIO 333		Systematic Botany	4				
BIO 403		Plant Structure and Function	4				
BIO 413		Freshwater Algae	3				
BIO 423		Plant Biotechnology	3				
BIO 433		Plant Ecology	4				
BIO 473		Ecology and Evolution of Plant-Animal Interactions	3				
BIO 573		Plants of the Great Lakes Area (with permission)	3				
BIO 222		<b>Biology Electives – Animal (choose one)</b> 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 402		Aquatic Insects	3				
BIO 412		Mammalogy	4				
BIO 422		Embryology	3				
BIO 432		Comparative Animal Physiology	4				
BIO 572		Field Zoology (with permission)	3				

Course Number	✓	Course Name	Credits	Completed	Scheduled	Grade	Quality Points
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	4				
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				
CHM 232 <sup>2</sup>		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	4				
PHY 200 <sup>3</sup>		Physics for the Life Sciences <b>OR</b>	4				
PHY 220		General Physics I <b>OR</b>	5				
PHY 230		Principles of Physics I	5				

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

**Special Considerations:**

<sup>1</sup> BIO 104, 105, 107, 109, 205, 309, 310, 311, 329 and 349 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 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:**

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**Substitutions, Equivalencies, and Waivers Approved By:**

**Date:**

**Prepared By:**

**Date:**

**Academic Departmental Approval (Pending Completion of Highlighted Requirements):**

**Date:**

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

Shared/Teaching Endorsement Templates/Bio Major Secondary

## **ENDORSEMENT RECOMMENDATIONS:**

Students may return to Grand Valley State University to obtain a post baccalaureate endorsement to append their teaching certificate by adding one or more content area endorsements. Students may choose to add any endorsement for which Grand Valley State University has approval from the Michigan Department of Education (MDE). Students must meet all of the MDE requirements for an endorsement, which includes taking and passing all courses identified on the endorsement planned program (course substitutions will be permitted with prior departmental approval), meeting GVSU GPA program requirements, taking and passing the associated subject area test for the endorsement through the Michigan Test for Teacher Certification and meeting any and all other requirements, which might include, but not be limited to, a criminal background check and providing other university transcripts.

**PLEASE NOTE:** To be recommended to the Michigan Department of Education by Grand Valley State University to add a content area endorsement to an existing Michigan teaching certificate, the student must be certified at the appropriate level. **Six credits** of the planned program minor and **twelve credits** of the planned program major must be earned at Grand Valley. For a complete list of the content area endorsements that Grand Valley State University offers, please check out the following link to our Grand Valley State University website: <http://www.gvsu.edu/clasadvising/endorsements-87.htm>

### **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:  
<http://www.mttc.nesinc.com/>
4. All candidates applying for certification must initiate the certification recommendation process by self-registering in the Michigan Online Education Certification System (MOECS) at: [www.michigan.gov/moeecs](http://www.michigan.gov/moeecs).
5. Submit official transcripts from all colleges and universities you have attended (do not resend if Grand Valley has all of your transcripts).

Updated 3.6.2015