

GRAND VALLEY STATE UNIVERSITY
S.M.A.R.T. CENTER
 SCIENCE AND MATHEMATICS ADVISING, RESOURCE AND TRANSITION CENTER
 377 PADNOS
 331-8585

Teacher Certification Planned Program
Biology Major – Secondary Education⁴

Student Name: _____

Date: _____

Address: _____

SID: _____

Phone _____

Transfer Institution(s): _____

Biology Major – Required Courses

Course Number	✓	Course Name	Credits	Completed	Scheduled	Grade
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 Laboratory	2			
BIO 495		Evolutionary Biology	3			
		Biology Electives – Plant (choose one)¹				
BIO 303		Plants and Fungi	4			
BIO 323		Aquatic Plants	3			
BIO 333		Systematic Botany	3			
BIO 403		Plant Structure and Function	4			
BIO 413		Freshwater Algae	3			
BIO 423		Plant Biotechnology	3			
BIO 573		Plants of the Great Lakes Area (with permission)	3			
		Biology Electives – Animal (choose one)²				
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 ²		Introduction to Organic Chemistry OR	4			
CHM 241		Organic Chemistry for Life Sciences I	4			
CHM 232		Biological Chemistry OR	4			
CHM 242		Organic Chemistry for Life Sciences II	4			

Course Number	✓	Course Name	Credits	Completed	Scheduled	Grade
STA 215		Introductory Applied Statistics OR	3			
MTH 125		Survey of Calculus OR	3			
MTH 201		Calculus I	5			
PHY 200		Physics for the Life Sciences OR	4			
PHY 220		General Physics I OR	5			
PHY 230		Principles of Physics I ³	5			

Special Considerations:

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

² If CHM 231 is chosen, CHM 232 must be taken. If CHM 241 is chosen, CHM 242 must be taken

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

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

Notes:

Signature

1 copy student; 1 copy S.M.A.R.T. Center File; 1 copy College of Education.

Date