

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
 Chemistry Major – Secondary Education**

Student Name: _____ Date: _____

Address: _____ SID: _____

_____ Phone _____

Transfer Institution(s): _____

Chemistry Major – Required Courses

Course Number	✓	Course Name	Credits	Completed	Scheduled	Grade
CHM 115		Principles of Chemistry I	5			
CHM 116		Principles of Chemistry II	5			
CHM 222		Quantitative Analysis	3			
CHM 225		Instrumental Analysis I	3			
CHM 245 /246		Principles of Organic Chemistry I & Lab1	4			
CHM 247 /248		Principles of Organic Chemistry II & Lab1	4			
CHM 232		Biological Chemistry OR	4			
CHM 461		Biochemistry I ²	4			
CHM 351		Introduction to Physical Chemistry	3			
CHM 352		Applied Physical Chemistry	1			
CHM 391		Chemistry Seminar I ³	1			
CHM 419		Chemistry in Secondary Education	3			
CHM 491		Chemistry Seminar II	1			
MTH 201		Calculus I	5			
PHY 220		General Physics I	5			
PHY 221		General Physics II	5			
BIO 120 or 121		General Biology I	4			
		General Biology II	4			
GEO 111 ⁴		Exploring the Earth	4			

Special Considerations:

¹ If CHM 241/242 are taken, then the bridge course of CHM 249 must also be taken.

² Recommend CHM 461 (based on pre-requisites for CHM 232)

³ Required of all chemistry majors. Two semesters of seminar are required for one credit. Students should register for zero credit in their first semester and one credit in their second semester. CHM 391 is required only of students who take their junior year in chemistry at Grand Valley.

⁴ Recommended GEO 111, however any geology course will substitute

Notes:

Signature

Date