

Chemistry (2010-2011)

Secondary Teacher Certification

This is a **general curriculum** guide and is not applicable to every student and is not a replacement for meeting with your advisor.

-If a student is starting in MTH 110-

Fall Semester – Year One	credits	Winter Semester- Year One	credits
MTH 110: Algebra	4	CHM 115: Principles of Chemistry I (<i>Gen Ed</i>)	5
WRT 150: Strategies in Writing	4	MTH 122: College Algebra (<i>Gen Ed</i>)	3
PSY 101: Introductory Psychology (<i>Gen Ed</i>)	3	MTH 123: Trigonometry	3
Gen Ed.	3	BIO 120: General Biology I (<i>Gen Ed</i>)	4
Total	14	Total	15
Spring Semester – Year One	credits	Summer Semester – Year One	credits
CHM 116: Principles of Chemistry II	5	Gen Ed.	3
Fall Semester – Year Two	credits	Winter Semester – Year Two	credits
CHM 245: Principles of Organic I ¹	3	CHM 222: Quantitative Analysis	3
CHM 246: Principles of Organic I Lab	1	CHM 247: Principles of Organic II ¹	3
MTH 201: Calculus I	5	CHM 248: Principles of Organic II Lab	1
ED 315: Diverse Perspectives on Education* (<i>Gen Ed</i>)	3	PSY 301: Child Development*	3
BIO 121: General Biology II	4	Minor Elective	3
Total	16	Gen Ed. or Theme	3
Total	16	Total	16
Spring Semester – Year Two	credits	Summer Semester – Year One	credits
Gen Ed. or Theme	3	Minor Elective	3
Fall Semester – Year Three	credits	Winter Semester – Year Three	credits
PHY 220: General Physics I	5	CHM 225: Instrumental Analysis I	3
CHM 391: Chemistry Seminar I ²	0	PHY 221: General Physics II	5
ED 337: Intro to Learning and Assessment*	3	CHM 391: Chemistry Seminar I ²	1
GEO 111: Exploring the Earth	4	WRT 305: Writing in the Disciplines ³	3
Gen Ed. or Theme	3	Gen Ed.	3
Total	15	Total	15
Spring Semester – Year Three	credits	Summer Semester – Year Three	credits
Minor Elective	3	Minor Elective	3
Fall Semester – Year Four	credits	Winter Semester – Year Four	credits
CHM 351: Introduction to Physical Chemistry	3	CHM 352: Applied Physical Chemistry	1
CHM 232: Biological Chemistry OR	4	CHM 419: Chemistry in Secondary Education	3
CHM 461: Biochemistry I	4	(Capstone)	
CHM 491: Chemistry Seminar II ²	0	CHM 491: Chemistry Seminar II ²	1
Gen Ed. or Theme	3	Gen Ed. or Theme	3
Minor Elective	3	Minor Elective	3
Minor Elective	3	Minor Elective	3
Total	16	Total	14
Fall Semester – Year Five	credits	Winter Semester – Year Five	credits
ED 331: Methods and Strategies for Secondary Teaching	5	ED 431: Student Teaching, Secondary	10
ED 310: Organizing and Managing Classroom Environments	3	ED 485: The Context of Educational Issues	3
ED 321: Content Area Literacy	3		
ED 370: Technology in Education**	3		
ED 379: Universal Design for Learning: Secondary**	3		
Total	17	Total	13

Notes:

* These courses are prerequisites to the College of Education. Student must have a minimum GPA of 2.7 in these classes, and both their major and minor. Classes must be completed prior to applying to the College of Education. A student selecting secondary education must also have a teachable minor. **Consult with your advisor early to select a minor!**

** ED 370 and/or ED 379 may be taken during or after Assisting but must be taken before Student Teaching.

¹ CHM 241 and CHM 242 may substitute for CHM 245/246/247/248. However, students must also take CHM 249 plus 28 additional lab-hour electives.

² 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.

³ Students who pass out of WRT 305 have room to take a Gen Ed., Theme, or elective in this semester.

Special Notes:

A. This is a **general** curriculum guide and will not work for everyone, especially those students who have AP or CLEP credit.

B. Courses that have (*Gen Ed*) written after them are classes that are required in the major and also fulfill a section of the general education program.

C. Remember to fulfill your 2 SWS requirements; 1 can be taken in the gen ed. program and 1 in your major.

D. Some classes are in multiple sections within the gen ed. If you take a course that can be counted in two categories, you can open up 1-2 more spots for electives.

E. 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 – 4/23/2010