

Earth/Space Science (2011-2012)

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.

-Student needs MTH 110 prerequisite-

Fall Semester – Year One	credits	Winter Semester- Year One	credits
MTH 110: Algebra GEO 111: Exploring the Earth (<i>Gen Ed</i>) WRT 150: Strategies in Writing Gen Ed.	4 4 4 3	GEO 112: Earth History CHM 115: Principles of Chemistry I MTH 122: College Algebra (<i>Gen Ed</i>) GEO 175: Research Tools for Geosciences Gen Ed.	4 5 3 1 3
Total	15	Total	16[#]
Fall Semester – Year Two	credits	Winter Semester – Year Two	credits
GEO 211: Mineralogy MTH 123: Trigonometry ED 315: Diverse Perspectives on Education (<i>Gen Ed</i>)* PSY 101: Introduction to Psychology (<i>Gen Ed</i>) Minor Elective	4 3 3 3 3	GEO 212: Petrology PHY 220: General Physics I PSY 301: Child Development* Gen Ed.	4 5 3 3
Total	16[#]	Total	15
Spring Semester – Year Two	credits	Spring Semester – Year Two	credits
Minor Elective	3	Minor Elective	3
Fall Semester – Year Three	credits	Winter Semester – Year Three	credits
GEO 430: Oceanography ³ PHY 221: General Physics II ED 337: Intro to Learning and Assessment* Gen Ed. or Theme ⁶	3 5 3 3	GEO Elective ¹ Cognate Elective ² Gen Ed. Gen Ed. or Theme Minor Elective	3-4 3-4 4 3 3
Total	14	Total	16-18[#]
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
GEO 485: Geology Seminar ⁵ NRM 140: The Climatic Factor <i>Or</i> NRM 281: Principles of Soil Science PHY 105: Descriptive Astronomy Gen Ed. or Theme Minor Elective	1 4 4 3 3 3	GEO 319: Earth Science in Secondary Education ⁴ GEO 320: Geomorphology (Capstone) GEO 485: Geology Seminar (<i>SWS</i>) ⁵ Gen Ed. or Theme Minor Elective	4 4 1 3 3
Total	14	Total	15
Fall Semester – Year Five	credits	Winter Semester – Year Five	credits
ED 331: Methods and Strategies for Secondary Teaching ED 310: Organizing and Managing Classroom Environments ED 321: Content Area Literacy ED 370: Technology in Education** ED 379: Universal Design for Learning: Secondary**	5 3 3 3 3	ED 431: Student Teaching, Secondary ED 485: The Context of Educational Issues	10 3
Total	17[#]	Total	13

[#]The block tuition rate is 12-15 credits. You will pay additional tuition for any credits over 15.

Notes:

* These courses are Education Major prerequisites. 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 School of Education. A student selecting secondary education must also have a teachable minor. Consult with your advisor!

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

¹ 3-4 credits of a Geology elective must be completed. Must be at the 300-400 level.

² One Biology or Life Science class must be taken to fulfill the cognate elective category.

³ GEO 430 is only offered fall semester of even-numbered years.

⁴ GEO 319 is only offered winter semester of even-numbered years.

⁵ Two semesters of seminar are required. Register for one credit each semester.

⁶ Earth Science majors are encouraged to take one of the following themes: Theme 02, 07, 11, or 23.

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. Complete a total of two courses with an SWS attribute. The two SWS courses may not be taken from the same department or school. One must be from outside the student's major unit.

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/clasadvicing>

Prepared by CLAS Academic Advising Center – 3/9/2011