

Geology - Earth and Space Science Education Model Schedule

Effective Fall 2005

	YEAR 1			YEAR 2			YEAR 3			YEAR 4			
FALL	CH 1110	Univ Chemistry I	4	GE 2300	Earth Materials I: Min	3	BL 1040	Principles of Biology	4	<i>BL 2170 or</i>	<i>Zoology or</i>	4	
	CH 1111	Univ Chemistry Lab I	1	PH 1600	Intro Astronomy	2	ED 3100	Instructional Technology	2	<i>MA 2720</i>	<i>Statistical Methods*</i>		
	GE2000	Understanding the Earth	3	PH 2200	Univ Physics II - E/M	3	(1) ED3110		3	GE 2640	Atmos Obs & Meteorology	3	
	MA 1150/60	Calculus I	4	UN 2001	Revisions	3	ED 3210	Foundations of Education	2	GE 4000	Earth Sci Teaching Exp	1	
	PH 1100	Intro Physics Lab I	1		PE/Co-Curricular (.5)	0	ED 3410	Clinical Experience	1	HU 4150	Literacy in Content Areas	4	
	UN 1001	Perspectives	3	GE 2350	Structural Geology I	2	GE3100	Depositional Systems	3		Distribution	3	
	GE1100	Orientation	1	GE 3320	Earth History & Paleoclim	3		PE/Co-Curricular (.5)	0		PE/Co-Curricular (.5)	0	
			17			16			15			15	
SPRING	CH 1120	Univ Chemistry II	4	GE2100	Environmental Geology	3	<i>BL 2160 or</i>	<i>Botany or</i>	4	ED4700		3	
	MA 2150/60	Calculus II	4	GE 2310	Earth Materials II: R/M	3	<i>MA 2720</i>	<i>Statistical Methods*</i>		ED4710		3	
	PH 1200	Intro Physics Lab II	1	GE3040	Fundamentals of Geophy	3	GE 2500	Intro to Oceanography	3	ED 4910	Direct Teaching	12	
	PH 2100	Univ Physics I - Mech	3	UN 2002	Institutions	3	(1) PSY 2000	Princ of Psychology/Dist	3				
	UN 1002	World Cultures	4		PE/Co-Curricular (.5)	0		Distribution	3				
		PE/Co-Curricular (.5)	0	GE 3000	Structural Geology II	2		Distribution	3				
				CS1121	Intro to Computer Sci	3		PE/Co-Curricular (.5)	0				
			16			17			16			18	
SUMMER	GE 2900	Geo of Utah's Nat Parks**	3		GE 3915	Intro to Field Geology**	3	6	Base Credits				130

*(1) Counts as a general elective and satisfies as part of the teaching requirement (double counted)

*Take either BL 2160 or BL 2170, not both. Take MA 2720 in the semester in which the advanced BL course is NOT taken.

**One (1) credit of free elective is needed if GE 3910 is substituted for GE 2900 and GE 3915.

***Can be waived if MA 1160/2160 are taken; substitute free electives.

****GE 3900 can be replaced by credits used to satisfy requirements for a second teaching minor.

BL 1040, BL2160 or BL2170, and CH 1120 are not required for the Earth and Space Science teaching major, but are required for the science teaching minor. These courses can be substituted with courses required for a different teaching minor if desired. All teachers must have a teaching major and a teaching minor.

NOTE: Students must take SS 3300 or SS 3630 as one of their distribution courses.

To be recommended by the University for a teaching certificate in the State of Michigan, a student must meet all requirements as described by the Department of Education. The B.S. in Geology with the Earth and Space Science Education Option satisfies these requirements, including a teaching major in earth and space sciences and a teaching minor in science. Students can pursue a second teaching minor by taking additional courses.

