

Name \_\_\_\_\_  
 MSU ID# \_\_\_\_\_

Advisor \_\_\_\_\_

GEOLOGY OPTION  
 CURRICULUM CHECKING SHEET  
 (2010-2012 Catalog)

Rubric #	Core Course Title	PREREQUISITES	SEM. CRED.TAKEN	GRADE
<b>FRESHMAN YEAR</b>				
CHMY 141	College Chemistry I	Level 3 College Algebra	4	
CHMY 143	College Chemistry II	CHMY 141 or CHMY 151	4	
GEO 101	IN Intro to Physical Geology & Lab		4	
GPHY 111	CS Intro to Physical Geography & Lab		4	
GEO 211	Earth History & Evolution w/o lab	GEO 101	3	Spr
M 171	Q Calculus I	M 151 or MATH PLACEMENT TEST W/IN 12 MNTHS	4	
M 172	Q Calculus II	M 171	4	
	University core or elective		3	
	<i>TOTAL</i>		30	
<b>SOPHOMORE YEAR</b>				
BIOB 170	IN Biology of Organisms		4	
ERTH 307	Principles of Geomorphology	GEO 101; GPHY 111; Junior Standing	4	Fall
GPHY 284	Intro to GIS Science & Cartography	CAPP 120 INTRO COMPUTER OR EQUIVALEN	3	
GPHY 384	Advanced GIS & Spatial Analysis	GPHY 284	3	
GEO 205	Mineralogy	GEO 101; CHMY 143	4	Spr
PHSX 205	College Physics I	HIGH SCHOOL TRIGONOMETRY or M 160	4	
PHSX 207	College Physics II	PHSX 205 or PHSX 220	4	
	University core or elective		4	
	<i>TOTAL</i>		30	
Have you taken a highschool Biology course?			Yes	No
<b>JUNIOR YEAR</b>				
GEO 306	Igneous Petrology	GEO 205	3	Fall
GEO 307	Sedimentary Petrology	GEO 205	3	Fall
GEO 308	Metamorphic Petrology	GEO 306; GEO 307	3	Spr
GEO 309	Sedimentation & Stratigraphy	GEO 211; GEO 307; M 172	4	Spr
GEO 315	Structural Geology	GEO 306 or GEO 307; M171	3	Spr
STAT 332	Stat-Scientist & Engr	M 172	3	
	University core or electives		11	
	<i>TOTAL</i>		30	
<b>SUMMER OF JUNIOR OR SENIOR YEAR</b>				
GEO 429	Field Geology	ERTH 307; GEO 211; GEO 307; GEO 309; GEO 315 MUST RECEIVE A MINIMUM GRADE OF "C" IN THESE AREAS	6	Su
<b>SENIOR YEAR</b>				
GEO 433	Global Tectonics	GEO 315	3	Fall
	University core or electives		21	
	<i>TOTAL</i>		24	
	<b>GRAND TOTAL</b>		<b>120</b>	

[See reverse side for elective requirements]

GEOLOGY ELECTIVES

Take 5 courses from the following three blocks, at least **three of which** must come from the Geology block.

SEM.  
CRED.TAKEN GRADE

Rubric # Core Course Title

GEOLOGY BLOCK

Take 3 to 5 courses from the following block.

GEO	310	<i>Invertebrate Paleontology</i>	GEO 211 (offered spring even years)	3	Spr	
GEO	411	<i>Vertebrate Paleontology</i>	GEO 111; GEO 211; BIOB 170 (spring even yrs)	3	Spr	
GEO	417	<b>Taphonomy</b>	GEO 307 or GEO 309 or BIOO 310 (Fall odd yrs)	3	Fall	
GEO	440	<b>Volcanology</b>	GEO 306 (offered Fall even years)	3	Fall	
GEO	445	<b>Glacial Geology</b>	ERTH 307 (offered Spring odd years)	3	Spr	
GEO	492	Independent Study		3		
GEO	491	Special Topics		3		
GEO	490	Undergraduate Research		3		
GEO	498	Internship		3		

§ NOTE: Can be repeated, but can only be counted once (each) as a Geology elective.

HYDROLOGY BLOCK

One course from the following can be counted as an elective.

ERTH	432	<i>Surface Water Resource</i> <i>Consider alternative ENSC 444</i>	JR STANDING (offered Fall odd years)	3	Fall	
GEO	420	<b>Hydrogeology</b> <i>Consider alternative ENSC 445</i>	GPHY 111 AND STAT 216 or STAT 332 AND PHSX 205 or PHSX 220 JR STANDING (offered fall even years)	3	Fall	
ERTH	450	Snow Dynamics and Accumulation ALBILITY TO SKI AT INTERMEDIATE LEVEL IN ALPINE TERRAIN; STAT 216 or STAT 332; PHSX 205 or PHSX 220 AND GPHY 111	JR or SR STANDING	3	Spr	

REMOTE SENSING BLOCK

One course from the following can be counted as an elective.

GPHY	384	Advanced GIS & Spatial Analysis	GPHY 284	3		
GPHY	484	Applied GIS & Spatial Analysis	GPHY 284; GPHY 384	3	Spr	
GPHY	426	N Remote Sensing	JR STANDING or CONSENT OF INSTRUCTOR	3	Spr	
GPHY	357	Fund/Applications in Mapping	GPHY 284	3	Fall	

‡ NOTE: Can be counted as an elective if not already used as a departmental requirement. See # above.

NOTE: A minimum of 120 credits is required for graduation; 42 of these credits must be in courses numbered 300 or above.

NOTE: Normal text shows courses offered every year, **BOLD courses are planned to be offered in the first year of the cycle (e.g., 2008-9)** and *ITALICIZED courses are planned to be offered in the second year (e.g., 2009-10)*. **Fall even, Spring odd; Fall odd; Spring even** All offerings are dependent upon available staffing.