Name _ MSU ID# _					Advisor	ſ		
				OHYDROLOGY OPTION ICULUM CHECKING SHEET (2010-2012 Catalog)				
		-	the Department	PREREQUISITES		SEM.		
Rubric	#	Core	e Course Title		CREDITS	STAKEN	GRADE	
FRESHMAI	N YEAR							
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			
M	171	Q	Calculus I	M 151 or MATH PLACEMENT TEST W/IN 12 MNTHS	3	Spr		
M	172	Q	Calculus II	M 171	4			
Universit	ty core o	or elect	tive		6	-		
			TOTAL		30			
SOPHOMO	SOPHOMORE YEAR							

SOPHOMO	RE YEA	R					
GEO	205		Mineralogy	GEO 101; CHMY 143	4	Spr	
GEO	211		Earth History and Evolution w/o lab	GEO 101	3	Spr	
ENSC	245	IN	Soils	M 097 OR EQUIVALENT	3		
M	273		Multivariable Calculus	M 172	4		
M	274		Intro to Differential Equation	M 225	4		
PHSX	220		Physics I (w/calculus)	M 171	4		
PHSX	222		Physics II (w/calculus)	PHSX 220 or PHSX 240; M 172	4		
University core or elective 4				4	-	<u> </u>	
			TOTAL		30		

JUNIOR YEAR							
ERTH	307	Principles of Geomorphology	GEO 101; GPHY 111	4 Fall			
ERTH	303	Weather and Climate	GPHY 111	3 Fall			
GEO	306	Igneous Petrology	GEO 205	3			
GEO	307	Sedimentary Petrology	GEO 205	3 Fall			
GEO	309	Sedimentation and Stratigraphy	GEO 211; GEO 307; M 182	4 Spr			
GEO	315	Structural Geology	GEO 306 or GEO 307; M171	4 Spr			
STAT	332	Stat-Scientist & Engr	M 182	3			
Univers	ity core or	6					
		TOTAL		30			

Courses RE	QUIRE	D by the Department	SEM.
Rubric	#	Core Course Title	CREDITSTAKENGRADE

SUMMER (of Junioi	R OR SENIOR YEAR	
GEO	429	Field Geology	ERTH 307; GEO 211; GEO 307; GEO 309; GEO 315 6 Su
			MUST RECEIVE A MINIMUM GRADE OF "C" IN THESE AREAS
		TOTAL	6

SENIOR YE	AR						
BIOB	170	IN	Biology of Organisms		4		
<i>ERTH</i>	432		Surface Water Resource	JR STANDING	3	Fall	
				GPHY 111; STAT 216 or STAT 332; PHSX 205 or PHSX 23	20;		
GEO	420		Hydrogeology	JR STANDING	3	Fall	
				M 170 or M 182; CHMY 143; PHSX 205 or PHSX 220; GEO) 101; GPI	HY 111	
Select TWC	of the fo	our co	ourses below		_		
ERTH	450		Snow Dynamics and Accumulation	JR OR SR STANDING	3	Spr	
			ALBILITY TO SKI AT INTERMEDIATE L	EVEL IN ALPINE TERRAIN; STAT 216 or STAT 332;			
				PHSX 205 OR PHSX 220 AND GPHY 111			
ENSC	370		Water Quality	CHMY 141 or CHMY 151	3		
GPHY	357		Fund/Applications in Mapping				

ENSC	444	Watershed Hydrology	GPHY 111; ENSC 110; ENSC 245 IN (OR EQUIVALEN	IT U 3	
ENSC	445	Watershed Analysis	ENSC 444 and STAT 216 or PSPP 318	3	
ENSC	453	Soil and Environmental Physics	ENSC 245 IN; M 170; COMPUTER LITERACY	3	
GPHY	284	Introduction to GIS Science and Cart	ography	<u> </u>	
University core or electives					
		TOTAL		24	
		120			

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)*. All offerings are dependent upon available staffing.