

Name _____
 ISU ID# _____

Advisor _____

PALEONTOLOGY OPTION
 CURRICULUM CHECKING SHEET
 (2010-2012 Catalog)

Rubric #	Core Course Title	PREREQUISITES	SEM.		
			CRED.	TAKEN	GRADE
FRESHMAN 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		
GEO 211	Earth History and 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		
	TOTAL		30		
SOPHOMORE YEAR					
BIOB 170	IN Principles Biological Diversity		4		
ERTH 307	Principles of Geomorphology	GEO 101; GPHY 111	4	Fall	
GPHY 284	Intro to GIS Science & Cartography	CAPP 120	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		
	TOTAL		30		
JUNIOR YEAR					
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; M 171	3	Spr	
STAT 332	Stat-Scientist & Engr	M 172	3		
	University core or electives		11		
	TOTAL		30		
SUMMER OF JUNIOR OR SENIOR YEAR					
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	Sum	
SENIOR YEAR					
GEO 433	Global Tectonics	GEO 315	3	Fall	
	University core or electives		21		
	TOTAL		24		
	GRAND TOTAL		120		

UPPER DIVISION PAELEONTOLOGY COURSE ELECTIVES

In order to complete the Paleontology Option, students *must* complete the following course requirements, in addition to those

Rubric	#	Core Course Title		SEM. TAKEN	GRADE
REQUIRED COURSES					
<i>GEO</i>	310	<i>Invertebrate Paleontology</i>	GEO 211 (offered spring even years)	3	Fall
<i>GEO</i>	330	<i>Paleontology Lab Techniques</i>	GEO 211 (offered fall odd years)	2	Fall
<i>GEO</i>	411	<i>Vertebrate Paleontology</i>	GEO 111; GEO 211; BIOB 170 (spring even yrs)	3	Spr
GEO	417	Taphonomy: Fossil Preservation	GEO 307 or GEO 309 or BIOO 310 (Fall odd yrs)	3	Fall
<i>GEO</i>	419	<i>Field Paleontology</i>	GEO 211 or GEO 307 (offered Summer even years)	2	Sum
CONSENT OF INSTRUCTOR FOR NON MAJORS					

§ NOTE: Taken during summer of Sophomore or Junior year

ELECTIVE COURSES

It is strongly recommended that students take a *minimum* of two of the following four courses:

Courses from this list may be substituted for a required Paleontology course above with advisor consent.

BIOO	310	Comparative Vertebrate Anatomy	BIOB 170 IN or BIOB 258	4	Spr
<i>GEO</i>	312	<i>Dinosaur Paleontology</i>	GEO 211; BIOL 101 (offered Fall odd years)	3	Fall
GEO	413	Macroevol & the Fossil Record	GEO 310 or GEO 312 or BIOB 375	3	Spr
GEO	491	Special Topics - Paleontology		3	
GPHY	411	Biogeography	GPHY 141 and GPHY 121(offered Spring Odd Yr)	3	Spr
GPHY	357	Fund/Applications in Mapping	GPHY 284	3	

‡ NOTE: Only GEO 480 courses that cover a specific paleontology topic are applicable.

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.