

Upper Division Form Department of Geosciences Catalog Year: 2019-2020

Instructions: For students graduating in Summer 2019 or later, an original copy signed by advisor, Geosciences mentor and

Department Chair, AND an Intent to Graduate Form must be filed in DSB 120 upon completion of 60 credit hours.

Student Name:		Student ID:		MTSU Box	
Degree Sought:		Phone:			
Major and/or concentration:	Concentration: Geology Career Path: Geology	E-mail:			

General Education Requirements (42 hrs)	Course	Semester	Grade	Notes	Credit Hours	
COMMUNICATION (9 hours)	ENGL 1010				3	
	ENGL 1020				3	
	COMM 2200				3	
HISTORY (6 hours) Choose two of the following: HIST 2010, HIST 2020, HIST 2030					3	
					3	
HUMANITIES AND/OR FINE ARTS (9 hours) Choose one of the following: ENGL 2020, ENGL 2030, or HUM 2610 Choose two different subjects* : ANTH 2210; ART 1030, ART 1920; DANC 1000; HIST 1010, HIST 1020, HIST 1110, or HIST 1120; HUM 2610; MUS 1030; PHIL 1030; THEA 1030					3	
					3	
						3
MATHEMATICS (3 hours) ** MATH 1910 Calculus I	MATH 1910			MATH 1910 and either MATH 1920 or MATH 1530 or MATH 2050 are required in cognate	3	
NATURAL SCIENCES (8 hours) ** CHEM 1110/1111 and either ** PHYS 2010/2011 or ** PHYS 2110/2111	CHEM 1110/1111			GEOL 1030/1031 or GEOL 1040/1041 required for major.	4	
	PHYS 2010/2011 or PHYS 2110/2111			CHEM 1110/1111 and CHEM 1120/1121, BIOL 1110/1111 and either PHYS 2020/2021 or 2120/2121 required in cognate	4	
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two different subjects: AAS 2100; ANTH 2010; ECON 2410; ECON 2420; EMC/JOUR/RIM 1020; GEOG 2000; GS 2010; HLTH 1530/1531; PS 1005, PS 1010; PSY 1410; RS 2030; SOC 1010, SOC 2010; WGST 2100					3	
					3	
* Must be different prefix from choice in first Humanities/Fine Arts category. ** Required to complete Cognate					SUBTOTAL HOURS	41

Courses to be taken to complete Major (53 hours)

Required Courses	Semester	Grade	Notes	Credit Hours
GEOL 1030/1031 or GEOL 1040/1041			Intro to Earth Science + Lab or Physical Geology + Lab (4 hrs)	4
GEOL 1050			Historical Geology (4 hrs)	4
GEOL 3000			Mineralogy (5 hrs)	5
GEOL 3050			Field Methods in Geology (3 hrs)	3
GEOL 3160			Geol. Lit & Report Writing (2 hr)	2
GEOL 4000			Petrology & Petrography (5 hrs)	5
GEOL 4020			Geomorphic Regions US (4 hrs)	4
GEOL 4030			Invertebrate Paleontology (5 hrs)	5
GEOL 4070			Sedimentation & Stratigraphy (5 hrs)	5
GEOL 4080			Structural Geology (5 hrs)	5
GEOL ____			GEOL elective; Geosciences mentor-approved (3 hrs)	3
GEOL 4130			Hydrogeology (5 hrs)	5
PGEO 4530			Geographic Information Systems(3 hrs)	3
SUBTOTAL HOURS				53

Courses to be taken to complete 1st Cognate (11-12 + 8* hours)				
Note: if MATH 1530 or MATH 2050 are chosen, student must choose a 4 hr math/science elective in 2nd cognate.				
Required Courses	Semester	Grade	Notes	Credit Hours
*CHEM 1110, 1111			General Chemistry (4 hrs)	0 *
CHEM 1120, 1121			General Chemistry (4 hrs)	4
*MATH 1910			Calculus I (4 hrs) 3 credits count in general education	1 *
MATH 1920 or MATH 1530 or MATH 2050			Calculus II (4 hrs) or Applied Statistics (3 hrs) or Probability and Statistics (3 hrs)	3-4
Math/Science Elective			Math/Science elective (3 hrs, Geosciences mentor- approved)	3
* Counted in General Education Requirements			SUBTOTAL HOURS	11-12

Courses to be taken to complete 2nd Cognate (14-15 + 4* hours)				
Required Courses	Semester	Grade	Notes	Credit Hours
PHYS 2010/ 2011 or PHYS 2110/2111			Physics I (4 hrs)	0
BIOL 1110/1111 or PHYS 2020/2021 or PHYS 2120/2121			General Biology or Physics II (4 hrs)	4
Geosciences Elective			GEOL or PGEO Elective (3 hrs, Geosciences mentor-approved)	3
			Geology Field Camp in Western US (4 hrs, Geosciences Chair-approved)	4
Math/Science Elective			Math or Science Elective (3 hrs, Geosciences mentor-approved)	3
*Counted in General Education Requirements			SUBTOTAL HOURS	14

Additional Faculty-Mentored approved Math/Science courses required to complete 120 hours, if necessary				

A minimum of 120 semester hours is required for graduation.	TOTAL HOURS	
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Notes: _____

Approved

Student: _____ Advisor: _____ Date: _____

Geosciences Mentor: _____

Department Chair: _____