

## Upper Division Form Department of Geosciences Catalog Year: 2020-2021

Instructions: For students graduating in Summer 2020 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.

<b>Student Name:</b>		<b>Student ID:</b>		<b>MTSU Box</b>		
<b>Degree Sought:</b>		<b>Phone:</b>				
<b>Major and/or concentration:</b>	<b>Concentration: Geology; Career Path: Earth Science for Teachers</b>	<b>E-mail:</b>				
General Education Requirements		Course	Semester	Grade	Notes	Credit Hours
COMMUNICATION (9 hours)		ENGL 1010				3
		ENGL 1020				3
		COMM 2200				3
HISTORY (6 hours) Choose two: HIST 2010, HIST 2020, HIST 2030						3
						3
HUMANITIES AND/OR FINE ARTS (9 hours) Choose one: ENGL 2020, 2030 or HUM 2610. Choose two different subjects: ANTH 2210, ART 1030, or 1920, DANC 1000, HIST 1010, 1020, 1110 or 1120, MUS 1030, PHIL 1030, THEA 1030						3
						3
						3
MATHEMATICS (3 hours) Choose one: MATH 1010, 1530, 1630, 1710, <b>1720</b> , 1730, 1810, 1910					<b>MATH 1720 is required for program</b>	3
NATURAL SCIENCES (8 hours) Choose two different subjects: ASTR 1030/1031, BIOL 1030/1031, <b>BIOL 1110/1111</b> , BIOL 2010/2011, BIOL 2020/2021, <b>CHEM 1010/1011</b> , CHEM 1030/1031, <b>CHEM 1110/1111</b> , GEOL 1030/1031, GEOL 1040/1041, PGEO 1030, PHYS 1110, PHYS 2010/2011, PHYS 2110/2111, PSCI 1030/1031, PSCI 1130/1131					<b>CHEM 1010/1011 or CHEM 1110/1111 is required for program</b>	4
					<b>BIOL 1110/1111 is required for program</b>	4
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two different subjects: AAS 2100, ANTH 2010, ECON 2410, ECON 2420, GEOG 2000, GS 2010, HLTH 1530/1531, PS 1010 or PS 1005, PSY 1410, RS 2030, SOC 1010 or 2010, WGST 2100, EMC/JOUR/RIM 1020						3
						3
<b>SUBTOTAL HOURS</b>						<b>41</b>
<b>Courses to be taken to complete Major (32 hours)</b>						
Required Courses	Semester	Grade	Notes			Credit Hours
PGEO 1030			Physical Geography (4 hrs)			4
GEOL 1030/1031 or GEOL 1040/1041			Intro Earth Science + Lab or Physical Geology + Lab (4 hrs)			4
GEOL 1050			Historical Geology (4 hrs)			4
GEOL 3010			Oceanography (3 hrs)			3
GEOL 4020			Geomorphic Regions of the US (4 hrs)			4
GEOL 4050			Meteorology (3 hrs)			3
GEOL 4740			Research Methods (3 hrs)			3
Choose 7 hours of GEOL or Geosciences mentor-approved Math/Science electives	Semester	Grade	Notes			Credit Hours
<b>SUBTOTAL HOURS</b>						<b>32</b>
<b>Courses to be taken to complete Math/Science Cognate (20 hours)</b>						

Required Courses	Semester	Grade	Notes	Credit Hours
ASTR 1030 / 1031			Exploring Universe	4
BIOL 1110 / 1111			General Biology I w/lab (credits can count in General Education)	0-4
BIOL 1120 /1121			General Biology II w/lab	4
CHEM 1010 / 1011 or CHEM 1110 /1111			General Chemistry I (credits can count in General Education)	0-4
CHEM 1020 / 1021 or CHEM 1120 / 1121			General Chemistry II	4
MATH 1720			Plane Trigonometry (credits can count in General Education)	0-3
PHYS 2010 / 2011			Non-Calculus-Based Physics I	4
PHYS 2020 / 2021			Non-Calculus-Based Physics II	4
<b>SUBTOTAL COGNATE HOURS</b>				<b>20</b>

MTeach SECONDARY EDUCATION MINOR					
Minor Courses (2.0 GPA required)	Course	Semester	Grade	Notes	Credit Hours
Inquiry Approaches to Teaching	MSE 1010				1
Inquiry Lesson Design	MSE 2010			Preq: MSE 1010	1
Knowing & Learning in Science & Mathematics	YOED 3520			Pre or Co-Req: MSE 2010	3
Classroom Interactions in Mathematics & Science	YOED 3550			Preq: YOED 3520; must be admitted to teacher education program to register	3
Perspectives on Science & Math	PHIL 3120				3
Project-Based Instruction in Mathematics & Science	YOED 4050			Preq: YOED 3550; must take same semester as YOED 4040	3
Residency I: MTeach	YOED 4040			Must take same semester as YOED 4050	4
Residency II:	YOED 4400			Preq: YOED 2500, 3000, 3300, 4030 with a grade of B or better; passing score on specialty area PRAXIS II; overall GPA of 2.75; major GPA of 2.5; Sr. standing	12
<b>Hours Required</b>					<b>30</b>

Notes: \_\_\_\_\_

**Approval Signatures:**

Student: \_\_\_\_\_ Advisor: \_\_\_\_\_ Date: \_\_\_\_\_

Geosciences Mentor: \_\_\_\_\_ Department Chair: \_\_\_\_\_