Name: **Date:** **General Catalog: 20__ - 20__**

PeopleSoft ID: **Major Catalog: 20__ - 20__**

Checklist for BS in Geophysics

Tr	UH	**GEOLOGY / GEOPHYSICS (48 Hours):**	
		GEOL 1103 (1130)	Physical Geology Lab
		GEOL 1303 (1330)	Physical Geology
		GEOL 3145	Structural Geology Lab
		GEOL 3150	Stratigraphy Lab
		GEOL 3340	Field Methods
		GEOL 3345	Structural Geology
		GEOL 3350	Stratigraphy
		GEOL 3370	Mineralogy
		GEOL 3372	Petrography
		GEOL 4330	Introduction to Geophysics
		GEOL 4355	Geophysics Field Camp
		GEOL 4370	Exploration and Global Seismology
		GEOL 4381	Geophysical Signals and Analysis
		GEOL __3___	3 hours Advanced Approved Geophysics Electives*
		GEOL __3___	3 hours Advanced Approved Geophysics Electives*
		GEOL __3___	3 hours Advanced Approved Geophysics Electives*
		GEOL __3___	3 hours Advanced Approved Geophysics Electives*
		GEOL __3___	3 hours Advanced Approved ***GEOSCIENCE Elective**

***GEOLOGY OR GEOPHYSICS ELECTIVE

		CHEMISTRY (8 Hours):	
		CHEM 1111 (1111)	Fundamentals of Chemistry Lab I
		CHEM 1311 (1331)	Fundamentals of Chemistry I
		CHEM 1112 (1112)	Fundamentals of Chemistry Lab II
		CHEM 1312 (1332)	Fundamentals of Chemistry II

		PHYSICS (8 Hours):	
		PHYS 2125 (1121)	University Physics Lab I
		PHYS 2325 (1321)	University Physics I
		PHYS 2126 (1122)	University Physics Lab II
		PHYS 2326 (1322)	University Physics II

		MATHEMATICS (21 Hours):	
		MATH 2413 (1431)	Calculus I
		MATH 2414 (1432)	Calculus II
		MATH 2415 (2433)	Calculus III
		MATH 3321	Engineering Math
		MATH 3363	Partial Differential Equations
		MATH 3364	Complex Analysis Fall
		MATH 43XX	4000-level elective for optional Math Minor

CORE (Check UH Catalog or UH Core Website for Pre-Requisites)

Tr	UH	**COMMUNICATION (6 Hours):**	
		ENGL 1301 (1303)	First Year Writing I
		ENGL 1302 (1304)	First Year Writing II

		STATE REQUIREMENTS (12 Hours):	
			American History (3 Hours)
			American History (3 Hours)
		GOVT 2305 (POLS 1337)	U.S. Government: Congress, President, and Court
		GOVT 2306 (POLS 1336)	U.S. and Texas Constitutions and Politics

		FROM APPROVED CORE LIST (12 Hours): Choose from UH Core Website	
			Creative Arts (3 Hours)
			Language, Philosophy & Culture (3 Hours)
			Social & Behavioral Sciences (3 Hours)
			Writing in the Disciplines (3 Hours)

***EXAMPLES OF ADVANCED APPROVED GEOPHYSICS ELECTIVES**

(Check Catalog for Pre-Requisites)

- GEOL 3383 Remote Sensing
- GEOL 4332 Applications of GPS & LIDAR
- GEOL 4378 Data Analytics & Machine Learning for Geoscientists
- GEOL 4379 Groundwater & Engineering Geophysics
- GEOL 4380 Petroleum Seismic Exploration
- GEOL 4383 Elements of Reservoir Geophysics
- GEOL 4385 Introduction to Marine Geophysics

****EXAMPLES OF ADVANCED APPROVED GEOLOGY ELECTIVES**

(Check Catalog for Pre-Requisites)

- GEOL 3330, 3130 Paleobiology Lecture & Lab
- GEOL 3331 Environmental Geology
- GEOL 3332 Geology of U.S. National Parks
- GEOL 3334 Earthquakes
- GEOL 3338 Environmental Hydrogeology
- GEOL 3357 Soils
- GEOL 3373 Igneous & Metamorphic Petrogenesis
- GEOL 3374 Sedimentary Petrogenesis
- GEOL 3377 Oceanography
- GEOL 4331 Geospatial Analysis & Applications
- GEOL 4337 Physical Volcanology
- GEOL 4358 Introduction to Depositional Models
- GEOL 4365 Environmental Geochemistry
- GEOL 4382 Introduction to Petroleum Geology
- GEOL 4397 Selected Topics in Geology/Geophysics (Consent of Faculty Advisor)

NSM CAPSTONE:

By virtue of the Geophysics Field Camp and Geophysical Signals & Analysis (GEOL 4355, 4381), students who complete the requirements for the B.S. degree in Geophysics have satisfied the NSM Capstone.

FREE ELECTIVES

(Additional hours to complete a total of **120 hours**, including at least **36 advanced hours**)

Tr	UH	

RULES YOU NEED TO KNOW:

Numbers in parentheses indicate UH course numbers prior to Fall 2021.

1. MINIMUM of a **2.00 GPA** in cumulative, major, and minor GPA to graduate
2. **C- RULE**: MAXIMUM of **6 hours of grades below C-** allowed in UH GEOL courses
3. **PRE-REQ RULE:** Must earn **C- or better** in pre-requisite for GEOL courses
4. LAST 30 hours must be exclusively completed at UH
5. MAXIMUM of 6 W's allowed during entire undergraduate career
6. MINIMUM of 36 advanced hours and 120 total hours to graduate
7. MAXIMUM of 66 lower level transfer hours may be applied towards UH degree

Advisor: _____

AC 3/23/21