

Bachelor of Science in Geosciences - Concentration in Geology
DEGREE PLAN 2013-2014

Required Geoscience Courses-

- GEOL 1303 – Physical Geology
- GEOL 1101 – Physical Geology lab
- GEOL 1304 – Historical Geology
- GEOL 1102 – Historical Geology lab
- GEOL 3401 – Mineralogy and Petrology
- GEOL 3402 – Structural Geology
- GEOL 4101 – Senior Seminar
- GEOL 4201 – Field Methods for Sedimentary Geology
- GEOL 4301 – Advanced Field Methods
- GEOL 4320 – Optical Mineralogy & Crystallography
- GEOL 4321 – Igneous & Metamorphic Petrology
- GEOL 4312 – Senior Research project
- GEOL 4325 – Sedimentology & Stratigraphy
- G PH 3300 – Geophysics
- G CH 3303 – Introduction to Geochemistry = 40 hours

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Elective Geoscience Courses

choose 1 electives- at least one must be from the list of electives with labs:

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| GEOL 3301 – Geomorphology (F) | GEOL 3322 – Oceanography (S) |
| GEOL 3450 – Paleontology (F' 13, 15,17) | GEOL 3323 – Environmental Geology (F) |
| GEOL 4331 – Digital Imagery (S) | GEOL 3328 – Energy Resources (S) |
| GEOL 4332 – Spatial Data Analysis | G PH 3310 – Quantitative Methods (F) |
| GEOL 4361 – Advanced Structure (S' 13, ' 15) | GEOL 4318 – Geology of Texas (S) |
| G PH 4321 – Seismic Methods (F) | GEOL 4300 – Petroleum Systems (F) |
| G PH 4323 – Electrical Methods (S) | GEOL 4362 – Tectonics (S' 14, 16) |
| | G PH 4300 – Studies in Geophysics |
| | G CH 4405 – Inorganic Geochemistry
= 3 to 4 hours |

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Required Adjunct Courses

- CHEM 1307 – Chemistry I
 - CHEM 1107 – Chemistry lab
 - CHEM 1308 – Chemistry II
 - CHEM 1108 – Chemistry lab
 - MATH 1451 – Calculus I
 - MATH 1452 – Calculus II
 - PHYS 1403 – Physics I (or PHYS 1408 – physics I if minor/concentration in geophysics)
 - PHYS 1404 – Physics II (or PHYS 2401 – physics II if minor/concentration in geophysics)
- = 24 hours

Four-Year Curriculum Plan

YEAR 1			
<i>Fall</i>		<i>Spring</i>	
GEOL 1303 Physical Geology (majors)	3	GEOL 1304 Historical Geology	3
GEOL 1101 Physical Geology Lab	1	GEOL 1102 Historical Geology Lab	1
CHEM 1307 Principles Chem I	3	CHEM 1308 Chemistry II	3
CHEM 1107 Principles Chem I lab	1	CHEM 1108 Chemistry II lab	1
MATH 1451 Calculus I	4	MATH 1452 Calculus II	4
ENGL 1301	3	ENGL 1302	3
15 hrs		15 hrs	

YEAR 2

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<i>Fall</i>		<i>Spring</i>	
GEOL 3401 Mineralogy and Petro	4	GEOL 4320 Optical Mineralogy	3
G PH 3300 Geophysics	3	GCH 3303 Intro. to Geochemistry	3
Physics I (1403 or 1408)	4	Physics II (1404 or 2401)	4
Foreign Language	3	Foreign Language	3
14 hrs		13 hrs	

YEAR 3

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<i>Fall</i>		<i>Spring</i>	
GEOL 3402 Structural Geology (WI)	4	GEOL 4321 Ign & Meta. Petrology	3
GEOL 4325 Sedimentology & Strat.	3	GEOL 4201 Field Meth. in Sed Geol	2
POLS 1301, American Govt. Org	3	Minor	3
English Literature	3	POLS 2302 American Public Policy	3
PFW 11XX Personal Fitness course	1	English Literature	3
		PFW 11XX Personal Fitness course	1
14 hrs		15 hrs	

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first summer session – GEOL 4301 Advanced Field Methods 3 hrs

YEAR 4

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<i>Fall</i>		<i>Spring</i>	
HIST 2300 US History to 1877	3	GEOL 4312 Senior Research (WI)	3
GEOL 4101 Seminar	1	Geosciences Elective (Jr/Sr)	3
Minor (Jr/Sr)	4	Minor (Jr/Sr)	3
Individual and Group Behavior Elective*	3	Visual and Performing Arts Elective*	3
Oral Communication	3	HIST 2301 US History from 1877	3
14 hrs		15hrs	

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 - Minor assumes two adjunct courses (Math, Chem, or Physics) will count toward 18 hr minor
 - Total 120 credit hours minimum, 40 junior-senior hours, 6 hours writing intensive (WI).
 *Students should select one course that also meets the Multicultural requirement.