

# Geology, B.S. (Concentration in Geosciences)

Course	Title	Semester Credit Hours
<b>Freshman Year</b>		
<b>Semester 1</b>		
ENGL 1301	Rhetoric and Composition	3
GEOL 1303 & GEOL 1103	Physical Geology and Physical Geology Laboratory	4
MATH 2413	Calculus I	4
UNIV 1201	Learning in Global Context	2
Creative arts		3
<b>Semester Credit Hours</b>		<b>16</b>
<b>Semester 2</b>		
CHEM 1311 & CHEM 1111	Gen Inorganic Chemistry I and Gen Inorganic Chem Lab I	4
ENGL 1302	Rhetoric and Composition	3
GEOL 1302 & GEOL 1102	Intro Ocean, Astron & Atmos and Intro Ocean Astron & Atmos Lab	4
GEOL 1304 & GEOL 1104	Historical Geology and Historical Geology Lab	4
<b>Semester Credit Hours</b>		<b>15</b>
<b>Sophomore Year</b>		
<b>Semester 1</b>		
HIST 1301	American History to 1877	3
PHYS 1301 & PHYS 1101	College Physics I and Coll Physics I Laboratory <sup>1</sup>	4
POLS 2301	Government and Politics of US	3
Lang/Phil/Culture		3
Social/Behavioral		3
<b>Semester Credit Hours</b>		<b>16</b>
<b>Semester 2</b>		
GEOG 2472	Intro to Geographic Info Sys	4
HIST 1302	American History since 1877	3
POLS 2302	Government and Politics of TX	3
Communications		3
Elective		3
<b>Semester Credit Hours</b>		<b>16</b>
<b>Junior Year</b>		
<b>Semester 1</b>		
GEOG/GEOL, adv.		4
GEOL 3445	Oceanography	4
Minor <sup>2</sup>		3
Minor <sup>2</sup>		3
<b>Semester Credit Hours</b>		<b>14</b>
<b>Semester 2</b>		
GEOG 3305	Environmental Geography	3
GEOL 3431	Stratigraphy and Sedimentology	4
GEOG 3450 or GEOG 3460	Field Mapping Cartography or GIS in Nat Res and Envir Mgmt	4
Minor <sup>2</sup>		3
<b>Semester Credit Hours</b>		<b>14</b>

**Senior Year****Semester 1**

GEOG 4429	Advanced GIS	4
GEOL 3446	Comp Methods in Geosciences	4
Minor, adv. <sup>2</sup>		3
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<b>Semester Credit Hours</b>		<b>14</b>
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**Semester 2**

GEOG 4435	Remote Sensing	4
GEOL, adv.		4
GEOL 4425	Hydrogeology	4
Minor, adv. <sup>2</sup>		3

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<b>Semester Credit Hours</b>		<b>15</b>
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<b>Total Credit Hours Required:</b>		<b>120</b>
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<sup>1</sup> Or PHYS 2325/PHYS 2125. Required for physics minor; recommended for those interested in geophysics.

<sup>2</sup> Or any other mathematics, natural science, engineering or computer science course, provided a recognized minor is completed. Courses in other supporting areas may also be substituted with departmental approval. Non-advanced courses may be substituted for those marked "adv." provided the student will otherwise complete 45 advanced hours including those required in a minor.