

## **Geology Department 4-Year Plans**

Included in this file are 4-year course plans for the following degrees:

1. Geology B.S. (starting in an even year)
2. Geology B.S. (starting in an odd year)
3. Geology B.A. (starting in an even year)
4. Geology B.A. (starting in an odd year)
5. Environmental Geology B.A. (starting in an even year)
6. Environmental Geology B.A. (starting in an odd year)

**Geology B.S. 4-Year Plan (starting in an even year)**

<b>FALL FRESHMAN YEAR</b>		<b>Geology B.S. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
GEOL	101 or 107	Physical Geology or Geology of National Parks	4
CORE	101	Academic Foundations I	3
MATH	101	Intermediate Algebra	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			<b>14</b>

<b>SPRING FRESHMAN YEAR</b>		<b>Geology B.S. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
GEOL	102	Historical Geology	4
CORE	102	Academic Foundations II	3
MATH	115	Pre-calculus (or other cognate)	4
ESPE	100	Principles of Fitness	2
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			<b>16</b>

<b>FALL SOPHOMORE YEAR</b>		<b>Geology B.S. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
MATH	135	Calculus & Analytical Geometry I	4
GEOL	316	Paleontology	4
CHEM	105 or 115	General Chemistry I or Principles of Chemistry	3
CHEM	117	Introductory Chemistry Laboratory	1
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	4
<b>TOTAL HOURS/SEMESTER</b>			<b>16</b>

<b>SPRING SOPHOMORE YEAR</b>		<b>Geology B.S. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
MATH	205	Calculus & Analytical Geometry II	4
CHEM	246	Intermediate Inorganic Chemistry	3
CHEM	248	Intermediate Inorganic Chemistry Lab	1
GEOL	307	Structural Geology	4
---	---	Writing Intensive course	4
<b>TOTAL HOURS/SEMESTER</b>			<b>16</b>

FALL JUNIOR YEAR		Geology B.S. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
MLC	101	Language	4
GEOL	301	Mineralogy	4
GEOL	318	Field & Lab Methods	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	4
<b>TOTAL HOURS/SEMESTER</b>			16

SPRING JUNIOR YEAR		Geology B.S. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
MLC	102	Language	4
GEOL	302	Petrology	4
GEOL	314	Sedimentology and Stratigraphy	4
ESS	375	Geographic Information and Positioning Systems (or other 300+)	4
<b>TOTAL HOURS/SEMESTER</b>			16

FALL SENIOR YEAR		Geology B.S. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	400	Senior Research I	2
---	---	Electives	4
---	---	Non western requirement	4
PHYS	205	General Physics I	3
PHYS	209	General Physics Lab I	1
<b>TOTAL HOURS/SEMESTER</b>			14

SPRING SENIOR YEAR		Geology B.S. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	401	Capstone: Senior Research II	1
---	---	Electives	10
PHYS	206	General Physics II	3
PHYS	210	General Physics Lab II	1
<b>TOTAL HOURS/SEMESTER</b>			15

**Geology B.S. 4-Year Plan (starting in an odd year)**

FALL FRESHMAN YEAR		Geology B.S. (starting in an odd year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	101 <i>or</i> 107	Physical Geology <i>or</i> Geology of National Parks	4
CORE	101	Academic Foundations I	3
MATH	101	Intermediate Algebra	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			14

SPRING FRESHMAN YEAR		Geology B.S. (starting in an odd year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	102	Historical Geology	4
CORE	102	Academic Foundations II	3
MATH	115	Pre-calculus	4
ESPE	100	Principles of Fitness	2
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			16

FALL SOPHOMORE YEAR		Geology B.S. (starting in an odd year)	
DEPT	COURSE #	COURSE NAME	CREDITS
MATH	135	Calculus & Analytical Geometry I	4
GEOL	301	Mineralogy	4
CHEM	105 <i>or</i> 115	General Chemistry I <i>or</i> Principles of Chemistry	3
CHEM	117	Introductory Chemistry Laboratory	1
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	4
<b>TOTAL HOURS/SEMESTER</b>			16

SPRING SOPHOMORE YEAR		Geology B.S. (starting in an odd year)	
DEPT	COURSE #	COURSE NAME	CREDITS
MATH	205	Calculus & Analytical Geometry II	4
CHEM	246	Intermediate Inorganic Chemistry	3
CHEM	248	Intermediate Inorganic Chemistry Lab	1
GEOL	301	Petrology	4
GEOL	314	Sedimentology and Stratigraphy	4
<b>TOTAL HOURS/SEMESTER</b>			16

<b>FALL JUNIOR YEAR</b>		<b>Geology B.S. (starting in an odd year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
MLC	101	Language	4
GEOL	316	Paleontology	4
PHYS	205	General Physics I	3
PHYS	209	General Physics Laboratory I	1
---	---	Non-western requirement	4
<b>TOTAL HOURS/SEMESTER</b>			16

<b>SPRING JUNIOR YEAR</b>		<b>Geology B.S. (starting in an odd year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
MLC	102	Language	4
GEOL	307	Structural Geology	4
PHYS	206	General Physics II	3
PHYS	210	General Physics Laboratory II	1
---		Writing Intensive course	4
<b>TOTAL HOURS/SEMESTER</b>			16

<b>FALL SENIOR YEAR</b>		<b>Geology B.S. (starting in an odd year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	4
GEOL	318	Field and Lab Methods	4
GEOL	400	Senior Research I	2
---	---	Electives	4
<b>TOTAL HOURS/SEMESTER</b>			14

<b>SPRING SENIOR YEAR</b>		<b>Geology B.S. (starting in an odd year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
ESS	375	Geographic Information and Positioning Systems (or other 300+)	4
GEOL	401	Capstone: Senior Research II	1
---	---	Electives	10
<b>TOTAL HOURS/SEMESTER</b>			15

**Geology B.A. 4-Year Plan (starting in an even year)**

FALL FRESHMAN YEAR		Geology B.A. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	101 or 107	Physical Geology or Geology of National Parks	4
CORE	101	Academic Foundations I	3
MATH	101	Intermediate Algebra	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			14

SPRING FRESHMAN YEAR		Geology B.A. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	102	Historical Geology	4
CORE	102	Academic Foundations II	3
ESPE	100	Principles of Fitness	2
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			16

FALL SOPHOMORE YEAR		Geology B.A. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	316	Paleontology	4
MATH	115	Pre-calculus (or other cognate)	4
CHEM	105 or 115	General Chemistry I or Principles of Chemistry	3
CHEM	117	Introductory Chemistry Laboratory	1
MLC	101	Language	4
<b>TOTAL HOURS/SEMESTER</b>			16

SPRING SOPHOMORE YEAR		Geology B.A. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	307	Structural Geology	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	4
---	---	Writing Intensive course	4
MLC	102	Language	4
<b>TOTAL HOURS/SEMESTER</b>			16

<b>FALL JUNIOR YEAR</b>		<b>Geology B.A. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
---	---	Elective	4
GEOL	301	Mineralogy	4
GEOL	318	Field and Laboratory Methods	4
---	---	Cognate	3-4
<b>TOTAL HOURS/SEMESTER</b>			15-16

<b>SPRING JUNIOR YEAR</b>		<b>Geology B.A. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
GEOL	302	Petrology	4
GEOL	314	Sedimentology and Stratigraphy	4
---	---	Electives	8
<b>TOTAL HOURS/SEMESTER</b>			16

<b>FALL SENIOR YEAR</b>		<b>Geology B.A. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
GEOL	400	Senior Research I	2
---	---	Electives	10
	300+	Elective	3
<b>TOTAL HOURS/SEMESTER</b>			15

<b>SPRING SENIOR YEAR</b>		<b>Geology B.A. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE NUMBER</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
GEOL	302	Capstone: Senior Research II	1
---	---	Electives	13-14
<b>TOTAL HOURS/SEMESTER</b>			14-15

**Geology B.A. 4-Year Plan (starting in an odd year)**

<b>FALL FRESHMAN YEAR</b>			<b>Geology B.A. (starting in an odd year)</b>
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
GEOL	101 or 107	Physical Geology or Geology of National Parks	4
CORE	101	Academic Foundations I	3
MATH	101	Intermediate Algebra	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			<b>14</b>

<b>SPRING FRESHMAN YEAR</b>			<b>Geology B.A. (starting in an odd year)</b>
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
GEOL	102	Historical Geology	4
CORE	102	Academic Foundations II	3
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	4
ESPE	100	Principles of Fitness	2
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			<b>16</b>

<b>FALL SOPHOMORE YEAR</b>			<b>Geology B.A. (starting in an odd year)</b>
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
MLC	101	Language	4
GEOL	301	Mineralogy	4
CHEM	105 or 115	General Chemistry I or Principles of Chemistry	3
CHEM	117	Introductory Chemistry Laboratory	1
MATH	115	Pre-calculus (or other cognate)	4
<b>TOTAL HOURS/SEMESTER</b>			<b>16</b>

<b>SPRING SOPHOMORE YEAR</b>			<b>Geology B.A. (starting in an odd year)</b>
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
MLC	102	Language	4
---	---	Elective	4
GEOL	302	Petrology	4
GEOL	314	Sedimentology and Stratigraphy	4
<b>TOTAL HOURS/SEMESTER</b>			<b>16</b>



FALL JUNIOR YEAR		Geology B.A. (starting in an odd year)	
DEPT	COURSE #	COURSE NAME	CREDITS
---	---	Cognate	3-4
GEOL	316	Paleontology	4
---	---	Electives	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	4
<b>TOTAL HOURS/SEMESTER</b>			15-16

SPRING JUNIOR YEAR		Geology B.A. (starting in an odd year)	
DEPT	COURSE #	COURSE NAME	CREDITS
---	---	Writing intensive course	4
GEOL	307	Structural Geology	4
---	---	Elective	4
	300+	300 level elective	3
<b>TOTAL HOURS/SEMESTER</b>			15

FALL SENIOR YEAR		Geology B.A. (starting in an odd year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	318	Field and Lab Methods	4
GEOL	400	Senior Research I	2
---	---	Electives	9
<b>TOTAL HOURS/SEMESTER</b>			15

SPRING SENIOR YEAR		Geology B.A. (starting in an odd year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	401	Capstone: Senior Research II	1
---	---	Electives	14-15
<b>TOTAL HOURS/SEMESTER</b>			15-16

**Environmental Geology B.A. 4-Year Plan (starting in an even year)**

<b>FALL FRESHMAN YEAR</b>		<b>Env. Geology B.A. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
GEOL	101 <i>or</i> 107	Physical Geology <i>or</i> Geology of National Parks	4
CORE	101	Academic Foundations I	3
MATH	101	Intermediate Algebra	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			14

<b>SPRING FRESHMAN YEAR</b>		<b>Env. Geology B.A. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
GEOL	102	Historical Geology	4
CORE	102	Academic Foundations II	3
MATH	115	Pre-calculus	4
ESPE	100	Principles of Fitness	2
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			16

<b>FALL SOPHOMORE YEAR</b>		<b>Env. Geology B.A. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
MLC	101	Language	4
GEOL	316	Paleontology	4
CHEM	105 <i>or</i> 115	General Chemistry I <i>or</i> Principles of Chemistry	3
CHEM	117	Introductory Chemistry Laboratory	1
ESS	205	Environmental Geology	4
<b>TOTAL HOURS/SEMESTER</b>			16

<b>SPRING SOPHOMORE YEAR</b>		<b>Env. Geology B.A. (starting in an even year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
MLC	102	Language	4
CHEM	246	Intermediate Inorganic Chemistry	3
CHEM	248	Intermediate Inorganic Chemistry Lab	1
GEOL	307	Structural Geology	4
GEOL	321	Contaminated Soil and Groundwater: Assessment and Remediation	4
<b>TOTAL HOURS/SEMESTER</b>			16

FALL JUNIOR YEAR		Env. Geology B.A. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	318	Field and Laboratory Methods	4
BIOL	217/218	Principles of Ecology/Lab	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	4
---	---	Non western requirement	4
<b>TOTAL HOURS/SEMESTER</b>			16

SPRING JUNIOR YEAR		Env. Geology B.A. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
ESS	375	Geographic Information and Positioning Systems	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	4
---	---	Elective	3
GEOL	314	Sedimentology and Stratigraphy	4
<b>TOTAL HOURS/SEMESTER</b>			15

FALL SENIOR YEAR		Env. Geology B.A. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	400	Senior Research I	2
CIS	106	Computer Programming	3
---	---	Electives	7
---	300+	300+ Elective	3
<b>TOTAL HOURS/SEMESTER</b>			15

SPRING SENIOR YEAR		Env. Geology B.A. (starting in an even year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	401	Capstone: Senior Research II	1
GEOL	---	GEOL Elective	4
---	---	Electives	10
<b>TOTAL HOURS/SEMESTER</b>			15

**Environmental Geology B.A. 4-Year Plan (starting in an odd year)**

<b>FALL FRESHMAN YEAR</b>		<b>Env. Geology B.A. (starting in an odd year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
GEOL	101 <i>or</i> 107	Physical Geology <i>or</i> Geology of National Parks	4
CORE	101	Academic Foundations I	3
MATH	101	Intermediate Algebra	4
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			14

<b>SPRING FRESHMAN YEAR</b>		<b>Env. Geology B.A. (starting in an odd year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
GEOL	102	Historical Geology	4
CORE	102	Academic Foundations II	3
MATH	115	Pre-calculus	4
ESPE	100	Principles of Fitness	2
---	---	Distribution: (1 of Arts, Hum., Religion and Phil., Soc. Sci)	3
<b>TOTAL HOURS/SEMESTER</b>			16

<b>FALL SOPHOMORE YEAR</b>		<b>Env. Geology B.A. (starting in an odd year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
MLC	101	Language	4
CHEM	105 <i>or</i> 115	General Chemistry I <i>or</i> Principles of Chemistry	3
CHEM	117	Introductory Chemistry Laboratory	1
---	---	Distribution: (2 of Arts, Hum., Religion and Phil., Soc. Sci)	8
<b>TOTAL HOURS/SEMESTER</b>			16

<b>SPRING SOPHOMORE YEAR</b>		<b>Env. Geology B.A. (starting in an odd year)</b>	
<b>DEPT</b>	<b>COURSE #</b>	<b>COURSE NAME</b>	<b>CREDITS</b>
MLC	102	Language	4
CHEM	246	Intermediate Inorganic Chemistry	3
CHEM	248	Intermediate Inorganic Chemistry Lab	1
GEOL	314	Sedimentology and Stratigraphy	4
---	---	Elective	3
<b>TOTAL HOURS/SEMESTER</b>			15

FALL JUNIOR YEAR		Env. Geology B.A. (starting in an odd year)	
DEPT	COURSE #	COURSE NAME	CREDITS
GEOL	316	Paleontology	4
ESS	205	Environmental Geology	4
CIS	106	Computer Programming	3
BIOL	217/218	Principles of Ecology/Lab	4
<b>TOTAL HOURS/SEMESTER</b>			15

SPRING JUNIOR YEAR		Env. Geology B.A. (starting in an odd year)	
DEPT	COURSE NUMBER	COURSE NAME	CREDITS
GEOL	307	Structural Geology	4
GEOL	321	Contaminated Soil and Groundwater: Assessment and Remediation	4
GEOL	318	Field and Laboratory Methods	4
---	---	Non western requirement	4
<b>TOTAL HOURS/SEMESTER</b>			16

FALL SENIOR YEAR		Env. Geology B.A. (starting in an odd year)	
DEPT	COURSE #	COURSE NAME	CREDITS
ESS	375	Geographic Information and Positioning Systems	4
GEOL	400	Senior Research I	2
---	---	Electives	7
---	300+	300+ Elective	3
<b>TOTAL HOURS/SEMESTER</b>			16

SPRING SENIOR YEAR		Env. Geology B.A. (starting in an odd year)	
DEPT	COURSE #	COURSE NAME	CREDITS
---	---	Electives	10
GEOL	400	Capstone: Senior Research II	1
GEOL	---	GEOL Elective	4
<b>TOTAL HOURS/SEMESTER</b>			15