

Requirements for Geology Subplan: 2015-1206

SECOND LANGUAGE REQUIREMENT

(Requirement can be met with proficiency exam):

Semester One		4
Semester Two	(completion with a grade of C or better)	4

TIER ONE

Traditions and Culture (xxxx160) (6 units):

		3
		3

Individuals and Societies (xxxx150) (6 units):

		3
		3

TIER TWO

Arts (3 units):

		3
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Individuals and Societies (3 units):

		3
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Humanities (3 units):

		3
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Diversity Emphasis (3 units) (gender, race, class):

(Can be fulfilled with qualified Tier One or Tier Two)		
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English (6 units):

ENGL 101	Composition	3
ENGL 102	Composition (grade of B or higher to meet MCWA)	3

Mathematics (9 units):

MATH 122A& 122B	(P: MATH 120R, or MATH 112 plus MATH 111, with a grade of C or higher)	5
MATH 129	Calculus II (P: MATH 122B or MATH 125 with grade of C or higher)	3

Choose one of the following:

MATH 163	Basic Statistics (P: MATH 112)	3
MATH 215	Intro to Linear Algebra (P: MATH 129)	3
MATH 223	Vector Calculus (P: MATH 129)	4
MATH 263	Statistics and Biostatistics (P: MATH 112)	3

Chemistry (8 units)::

CHEM 151	General Chemistry I (P: MATH 112 or Math Placement level, Calc 65+)	4
CHEM 152	General Chemistry II (P: CHEM 151)	4

Physics (7-8 units)::

PHYS 141	Introductory Mechanics (P: MATH 122B; CR: MATH 129)	4
PHYS 142	Introductory Optics and Thermodynamics (P: PHYS 141, MATH 129))	3

or

PHYS 102	Introductory Physics I (P: Math Placement level, Calculus 45+, or MATH 112)	3
PHYS 181	Introductory Laboratory I (CR: PHYS 102)	1
PHYS 103	Introductory Physics II (P: PHYS 102)	3
PHYS 182	Introductory Laboratory II (P: PHYS 181; CR: PHYS 103)	1

Computer Science (3 units)

(Course in programming, GIS, or remote sensing)		
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Geology Core (Complete all 7 courses):

GEOS 251	Physical Geology (Fall and Spring)	4
GEOS 302	Principles Stratigraphy and Sedimentation (P: GEOS 251, CHEM 151, PHYS 102 or 141) (Fall) (Writing Proficiency course)	4
GEOS 304	Structural Geology (P: GEOS 251, PHYS 102 or 141) (Spring)	4
GEOS 306	Mineralogy (P: GEOS 251, CHEM 151) (Fall only)	3
GEOS 308	Paleontology (P: GEOS 251) (Fall only)	3
GEOS 322	Intro to Geophysics (P: GEOS 251; P: MATH 122B or 125) (Spring only)	3
GEOS 356	Petrology (P: GEOS 306, MATH 122B, PHYS 102 or 141) (Spring only)	4

Field Course (6 units):

GEOS 414	Geology Field Camp (P: GEOS 251, 302, 304, 306, 356) (Summer Session)	6
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Geology Advisor Approved Emphasis Courses (21 units)

Majority of courses should consist of GEOS 300 or 400 level		
Full list of approved classes on advisement report		
Up to 9 units of Research and Preceptor allowed with max 6 units Preceptor (GEOS 397A)		

*This plan equals 106 units. An additional 14 units of elective credit are required for graduation

Advisor Approved Emphasis Courses – Geology

ANTH 235, ANTH 304, ANTH 335, ANTH 435, CHEM 325, CHEM 326, CHEM 480A, CHEM 480B, ECOL 182L, ECOL 182R, ECOL 183, ECOL 335, ECOL 406L, ECOL 406R, ECOL 438, GEN 427, GEOG 430, GEOG 438, GEOS 400, GEOS 403, GEOS 415, GEOS 417, GEOS 419, GEOS 423, GEOS 424A, GEOS 425, GEOS 432, GEOS 434A, GEOS 440, GEOS 442, GEOS 446, GEOS 448, GEOS 450, GEOS 453, GEOS 456, GEOS 460, GEOS 462, GEOS 466, GEOS 469, GEOS 470L, GEOS 470R, GEOS 477, GEOS 478, GEOS 481, GEOS 482, GEOS 489, HWRS 250, HWRS 431, HWRS 480, MATH 215, MATH 254, MNE 427, MSE 222, MSE 412, PTYS 403, PTYS 442,

Geology subplan: MATH 125 placement

Year 1		Year 2		Year 3		Year 4	
Fall		Fall		Fall		Fall	
GEOS 251	4	GEOS 308	3	GEOS 302	4	GEOS emphasis	8
MATH 125	3	GEOS 306	3	Additional math	3	Free electives	7
ENGL 101/107	3	PHYS 102	3	Tier I gen. ed.	3		
Tier I gen. ed.	3	PHYS 181	1	Tier II Humanities	3		
Tier I gen. ed.	3	CHEM 152	4				
	16		14		13		15
Spring		Spring		Spring		Spring	
GEOS 255*	4	GEOS 322	3	GEOS 304	4	GEOS emphasis	6
MATH 129	3	GEOS 356	4	GEOS emphasis	3	Tier II Individuals	3
CHEM 151	4	PHYS 103	3	CompSci course	3	Free electives	6
ENGL 102/108	3	PHYS 182	1	Tier II Arts	3		
		Tier I gen. ed.	3				
	14		14		13		15
				Summer			
				GEOS 414	6		
TOTAL UNITS	30		28		32		30

* GEOS 255 counts as emphasis course.

Geology subplan: MATH 122 placement

Year 1		Year 2		Year 3		Year 4	
Fall		Fall		Fall		Fall	
GEOS 251	4	GEOS 308	3	GEOS 302	4	GEOS emphasis	6
MATH 122A	1	GEOS 306	3	Additional math	3	Tier II Arts	3
MATH 122B	4	PHYS 102	3	Tier I gen. ed.	3	Free electives	7
ENGL 101/107	3	PHYS 181	1	Tier I gen. ed.	3		
Tier I gen. ed.	3	CHEM 152	4				
	15		14		13		16
Spring		Spring		Spring		Spring	
GEOS 255*	4	GEOS 322	3	GEOS 304	4	GEOS emphasis	8
MATH 129	3	GEOS 356	4	GEOS emphasis	3	Tier II Humanities	3
CHEM 151	4	PHYS 103	3	CompSci course	3	Free electives	4
ENGL 102/108	3	PHYS 182	1	Tier II Individuals	3		
		Tier I gen. ed.	3				
	14		14		13		15
				Summer			
				GEOS 414	6		
TOTAL UNITS	29		28		32		31

* GEOS 255 counts as emphasis course.

Geology subplan: MATH 111/112 or 120 placement

Year 1		Year 2		Year 3		Year 4	
Fall		Fall		Fall		Fall	
GEOS 251	4	GEOS 308	3	GEOS 302	4	GEOS emphasis	8
MATH 111	2	PHYS 102	3	GEOS 306	3	Tier II Arts	3
MATH 112	3	PHYS 181	1	Additional math	3	Free electives	3
ENGL 101/107	3	CHEM 152	4	Tier II Humanities	3		
Tier I gen. ed.	3	Tier I gen. ed.	3				
	15		14		13		14
Spring		Spring		Spring		Spring	
GEOS 255*	4	GEOS 322	3	GEOS 304	4	GEOS emphasis	6
MATH 122A	1	PHYS 103	3	GEOS 356	4	Free electives	3
MATH 122B	4	PHYS 182	1	GEOS emphasis	3	Tier II Individuals	3
CHEM 151	4	Tier I gen. ed.	3	CompSci course	3		
ENGL 102/108	3	Tier I gen. ed.	3				
	16		13		14		12
Summer				Summer			
MATH 129	3			GEOS 414	6		
TOTAL UNITS	34		27		33		26

* GEOS 255 counts as emphasis course.

Geology subplan: MATH 100 placement

Year 1		Year 2		Year 3		Year 4	
Fall		Fall		Fall		Fall	
GEOS 251	4	GEOS 308	3	GEOS 302	4	GEOS emphasis	8
MATH 100	3	MATH 122A	1	GEOS 306	3	CompSci course	3
ENGL 101/107	3	MATH 122B	4	Additional math	3	Tier II Arts	3
Tier I gen. ed.	3	PHYS 102	3	CHEM 152	4	Free electives	3
		PHYS 181	1				
	13		12		14		17
Spring		Spring		Spring		Spring	
GEOS 255*	4	GEOS 322	3	GEOS 304	4	GEOS emphasis	6
MATH 111	2	MATH 129	3	GEOS 356	4	Tier II Humanities	3
MATH 112	3	PHYS 103	3	GEOS emphasis	3	Tier II Individuals	3
ENGL 102/108	3	PHYS 182	1	Tier I gen. ed.	3		
Tier I gen. ed.	3	Tier I gen. ed.	3				
	15		13		14		12
		Summer		Summer			
		CHEM 151	4	GEOS 414	6		
TOTAL UNITS	28		29		34		29

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* GEOS 255 counts as emphasis course.

Geology subplan: MATH 100AX placement

Year 1		Year 2		Year 3		Year 4	
Fall		Fall		Fall		Fall	
GEOS 251	4	GEOS 308	3	GEOS 302	4	GEOS emphasis	6
MATH 100AX	(2)	MATH 122A	1	GEOS 306	3	CompSci course	3
ENGL 101/107	3	MATH 122B	4	Additional math	3	Tier II Arts	3
Tier I gen. ed.	3	PHYS 102	3	CHEM 152	4		
Tier I gen. ed.	3	PHYS 181	1				
	13		12		14		12
Spring		Spring		Spring		Spring	
GEOS 255*	4	GEOS 322	3	GEOS 304	4	GEOS emphasis	8
MATH 100	3	MATH 129	3	GEOS 356	4	Tier II Individuals	6
ENGL 102/108	3	PHYS 103	3	GEOS emphasis	3		
Tier I gen. ed.	3	PHYS 182	1	Tier II Humanities	3		
		Tier I gen. ed.	3				
	13		13		14		14
Summer		Summer		Summer			
MATH 111	2	CHEM 151	4	GEOS 414	6		
MATH 112	3						
TOTAL UNITS	31		29		34		26

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Geology subplan: MATH 100AX placement, no summer math/chem classes

Year 1		Year 2		Year 3		Year 4	
Fall		Fall		Fall		Fall	
GEOS 251	4	GEOS 308	3	GEOS 306	3	GEOS 302	4
MATH 100AX	(2)	MATH 111	2	MATH 129	3	GEOS emphasis	6
ENGL 101/107	3	MATH 112	3	PHYS 102	3	Additional math	3
Tier I gen. ed.	3	Tier II Humanities	3	PHYS 181	1	Tier II Arts	3
Tier I gen. ed.	3	Tier I gen. ed.	3	CHEM 152	4		
	13		14		14		16
Spring		Spring		Spring		Spring	
GEOS 255*	4			GEOS 356	4	GEOS 304	4
MATH 100	3	MATH 122A	1	GEOS 322	3	GEOS emphasis	8
ENGL 102/108	3	MATH 122B	4	GEOS emphasis	3	Free electives	3
Tier I gen. ed.	3	CHEM 151	4	PHYS 103	3		
		CompSci course	3	PHYS 182	1		
		Tier II Individuals	3				
	13		15		14		15
						Summer	
						GEOS 414	6
TOTAL UNITS	26		29		28		37

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