

SLO Performance Report (2019-20)

Program: Geology

Date: 08-17-2020

Terms: Spring 2020, Fall 2019, Summer 2019

GEOLB10: Introduction to Geology

Upon completion of the course, the student will be able to explain the scientific method.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2019	1	5.26%	14	73.68%	1	5.26%	3	15.79%	19	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	5.26%	14	73.68%	1	5.26%	3	15.79%	19	100.00%

Upon completion the student will be able to: Demonstrate a conceptual understanding of fundamental concepts, principles, and interactions of Earth's systems applicable to the Geological Sciences.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2019	1	5.26%	12	63.16%	4	21.05%	2	10.53%	19	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	5.26%	12	63.16%	4	21.05%	2	10.53%	19	100.00%

Upon completion the student will be able to: Apply understanding of the internal and external processes that shape and form the Earth.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2019	1	5.26%	12	63.16%	4	21.05%	2	10.53%	19	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	5.26%	12	63.16%	4	21.05%	2	10.53%	19	100.00%

Upon completion the student will be able to: Demonstrate an understanding of the rock cycle and identify and describe the basic properties of rocks and minerals.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2019	1	5.26%	12	63.16%	5	26.32%	1	5.26%	19	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	5.26%	12	63.16%	5	26.32%	1	5.26%	19	100.00%

Upon completion the student will be able to: Demonstrate an understanding of plate tectonics and Earth's resources.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	31	36.05%	49	56.98%	6	6.98%	86	100.00%
Fall 2019	1	5.26%	14	73.68%	3	15.79%	1	5.26%	19	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	0.95%	45	42.86%	52	49.52%	7	6.67%	105	100.00%

Upon completion the student will be able to: Demonstrate an understanding of how geological environments are formed, changed, and eroded through geological time.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	26	30.23%	51	59.30%	9	10.47%	86	100.00%
Fall 2019	1	5.26%	11	57.89%	6	31.58%	1	5.26%	19	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	0.95%	37	35.24%	57	54.29%	10	9.52%	105	100.00%

Upon completion the student will be able to: Communicate complex course concepts effectively in writing and diagrams and apply critical thinking and problem solving skills to make informed decisions in life.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	57	33.14%	100	58.14%	15	8.72%	172	100.00%
Fall 2019	6	5.26%	75	65.79%	23	20.18%	10	8.77%	114	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	6	2.10%	132	46.15%	123	43.01%	25	8.74%	286	100.00%

GEOLB11: Historical Geology

Upon completion of the course, the student will be able to demonstrate a fundamental understanding of concepts and principles of Historical Geology, including fossilization, ecology, evolution, and extinction; Plate Tectonics; Geologic time and dating methods; the Supercontinent Cycle and Paleoclimate.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	12	11.54%	0	0.00%	57	54.81%	35	33.65%	104	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	12	11.54%	0	0.00%	57	54.81%	35	33.65%	104	100.00%

Upon completion the student will be able to: Explain formation of and basic properties of fossils, minerals, and rocks.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	21	20.19%	0	0.00%	67	64.42%	16	15.38%	104	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	21	20.19%	0	0.00%	67	64.42%	16	15.38%	104	100.00%

Upon completion the student will be able to: Explain tectonic processes that shape the Earth over geologic time.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	21	20.19%	0	0.00%	47	45.19%	36	34.62%	104	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	21	20.19%	0	0.00%	47	45.19%	36	34.62%	104	100.00%

Upon completion the student will be able to: Interpret sequences of geologic events.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	21	20.19%	0	0.00%	67	64.42%	16	15.38%	104	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	21	20.19%	0	0.00%	67	64.42%	16	15.38%	104	100.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	75	18.03%	0	0.00%	238	57.21%	103	24.76%	416	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	75	18.03%	0	0.00%	238	57.21%	103	24.76%	416	100.00%

GEOLB10L: Introduction to Geology Laboratory

Upon completion of the course, the student will be able to practically apply the principles of the scientific method.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	38	74.51%	0	0.00%	13	25.49%	51	100.00%
Fall 2019	1	1.59%	43	68.25%	1	1.59%	18	28.57%	63	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	0.88%	81	71.05%	1	0.88%	31	27.19%	114	100.00%

Upon completion the student will be able to: Demonstrate a conceptual understanding of fundamental concepts, principles, and interactions of the Earth's systems applicable to the Geological Sciences.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	34	66.67%	7	13.73%	10	19.61%	51	100.00%
Fall 2019	0	0.00%	15	34.09%	13	29.55%	16	36.36%	44	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	0	0.00%	49	51.58%	20	21.05%	26	27.37%	95	100.00%

Upon completion the student will be able to: Demonstrate and understanding of the Earth through the identification and evaluation of physical mineral samples.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	39	76.47%	5	9.80%	7	13.73%	51	100.00%
Fall 2019	1	1.59%	33	52.38%	18	28.57%	11	17.46%	63	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	0.88%	72	63.16%	23	20.18%	18	15.79%	114	100.00%

Upon completion the student will be able to: Demonstrate an understanding of the Earth through the identification and evaluation of physical igneous, sedimentary, and metamorphic rock samples.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage
Spring 2020	0	0.00%	41	80.39%	0	0.00%	10	19.61%	51	100.00%
Fall 2019	1	1.59%	37	58.73%	16	25.40%	9	14.29%	63	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	0.88%	78	68.42%	16	14.04%	19	16.67%	114	100.00%

Upon completion the student will be able to: Demonstrate the ability to read and interpret topographic and geologic maps and answer questions pertaining to geological processes.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage
Spring 2020	0	0.00%	41	80.39%	1	1.96%	9	17.65%	51	100.00%
Fall 2019	0	0.00%	25	56.82%	9	20.45%	10	22.73%	44	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	0	0.00%	66	69.47%	10	10.53%	19	20.00%	95	100.00%

Upon completion the student will be able to: Demonstrate an ability to communicate complex ideas/concepts effectively in writing and diagrams.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage
Spring 2020	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	193	75.69%	13	5.10%	49	19.22%	255	100.00%
Fall 2019	3	1.08%	153	55.23%	57	20.58%	64	23.10%	277	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	3	0.56%	346	65.04%	70	13.16%	113	21.24%	532	100.00%

GEOLB11L: Historical Geology Laboratory

Upon completion of the course, the student will be able to apply the principles of the scientific method.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	13	18.84%	0	0.00%	48	69.57%	8	11.59%	69	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	13	18.84%	0	0.00%	48	69.57%	8	11.59%	69	100.00%

Upon completion the student will be able to: Apply concepts and principles of Historical Geology including: Fossilization; Ecology, Evolution, Extinction and the Fossil Record; Plate Tectonics; Geologic Time and Dating Methods; The Supercontinent Cycle and Paleoclimate.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	13	18.84%	0	0.00%	41	59.42%	15	21.74%	69	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	13	18.84%	0	0.00%	41	59.42%	15	21.74%	69	100.00%

Upon completion the student will be able to:Identify representative physical samples of fossils and rocks.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	13	18.84%	0	0.00%	38	55.07%	18	26.09%	69	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	13	18.84%	0	0.00%	38	55.07%	18	26.09%	69	100.00%

Upon completion the student will be able to:Apply knowledge of tectonic processes to interpret geologic events.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	13	18.84%	0	0.00%	28	40.58%	28	40.58%	69	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	13	18.84%	0	0.00%	28	40.58%	28	40.58%	69	100.00%

Upon completion the student will be able to:Interpret geologic maps, cross sections and stratigraphic columns.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	13	18.84%	0	0.00%	56	81.16%	0	0.00%	69	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	13	18.84%	0	0.00%	56	81.16%	0	0.00%	69	100.00%

Upon completion the student will be able to:Apply principles of relative dating to interpret sequences of geologic events.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	13	18.84%	0	0.00%	52	75.36%	4	5.80%	69	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	13	18.84%	0	0.00%	52	75.36%	4	5.80%	69	100.00%

Upon completion the student will be able to:Communicate complex course concepts effectively in writing and diagrams.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	13	18.84%	0	0.00%	41	59.42%	15	21.74%	69	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	13	18.84%	0	0.00%	41	59.42%	15	21.74%	69	100.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	91	18.84%	0	0.00%	304	62.94%	88	18.22%	483	100.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	91	18.84%	0	0.00%	304	62.94%	88	18.22%	483	100.00%

GEOLB21: Topics in Geology

Upon completion of the course, the student will be able to use and apply geologic field equipment (including compasses, tape measures, pace, maps, GPS, etc.) used by geologists in the field to analyze, interpret, and synthesize various ongoing and past geologic processes within the study area.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%

Upon completion the student will be able to: Apply the fundamental geologic concepts (i.e. mineral/rock identification, stratigraphic principles, elementary geologic structures and basic field techniques), along with applicable geologic field equipment, to produce a basic geologic map and decipher geological processes, representing a specific project area.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%

Report Totals:										
	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2020	166	12.52%	250	18.85%	655	49.40%	255	19.23%	1326	100.00%
Fall 2019	9	2.30%	228	58.31%	80	20.46%	74	18.93%	391	100.00%
Summer 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	175	10.19%	478	27.84%	735	42.81%	329	19.16%	1717	100.00%