

SLO Performance Report

Program: Geology

Date: 11-02-2019

Terms: Spring 2019, Fall 2018, Summer 2018

GEOLB10: Introduction to Geology

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

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	3	13.64%	15	68.18%	2	9.09%	2	9.09%	22	100.00%
Fall 2018	6	7.69%	0	0.00%	68	87.18%	4	5.13%	78	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	9	9.00%	15	15.00%	70	70.00%	6	6.00%	100	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 2019	6	13.64%	23	52.27%	10	22.73%	5	11.36%	44	100.00%
Fall 2018	3	3.85%	0	0.00%	68	87.18%	7	8.97%	78	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	9	7.38%	23	18.85%	78	63.93%	12	9.84%	122	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 2019	3	13.64%	13	59.09%	4	18.18%	2	9.09%	22	100.00%
Fall 2018	8	10.26%	0	0.00%	60	76.92%	10	12.82%	78	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	11	11.00%	13	13.00%	64	64.00%	12	12.00%	100	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 2019	3	13.64%	12	54.55%	4	18.18%	3	13.64%	22	100.00%
Fall 2018	6	7.69%	0	0.00%	63	80.77%	9	11.54%	78	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	9	9.00%	12	12.00%	67	67.00%	12	12.00%	100	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 2019	3	13.64%	15	68.18%	2	9.09%	2	9.09%	22	100.00%
Fall 2018	4	5.13%	0	0.00%	42	53.85%	32	41.03%	78	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	7	7.00%	15	15.00%	44	44.00%	34	34.00%	100	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 2019	6	13.64%	24	54.55%	9	20.45%	5	11.36%	44	100.00%
Fall 2018	3	3.85%	0	0.00%	63	80.77%	12	15.38%	78	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	9	7.38%	24	19.67%	72	59.02%	17	13.93%	122	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 2019	6	13.64%	24	54.55%	9	20.45%	5	11.36%	44	100.00%
Fall 2018	9	11.54%	0	0.00%	68	87.18%	1	1.28%	78	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	15	12.30%	24	19.67%	77	63.11%	6	4.92%	122	100.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	30	13.64%	126	57.27%	40	18.18%	24	10.91%	220	100.00%
Fall 2018	39	7.14%	0	0.00%	432	79.12%	75	13.74%	546	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	69	9.01%	126	16.45%	472	61.62%	99	12.92%	766	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 2019	0	0.00%	27	51.92%	24	46.15%	1	1.92%	52	100.00%
Fall 2018	2	1.80%	26	23.42%	69	62.16%	14	12.61%	111	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	2	1.23%	53	32.52%	93	57.06%	15	9.20%	163	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 2019	2	8.70%	0	0.00%	15	65.22%	6	26.09%	23	100.00%
Fall 2018	10	14.93%	0	0.00%	55	82.09%	2	2.99%	67	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	12	13.33%	0	0.00%	70	77.78%	8	8.89%	90	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 2019	0	0.00%	13	25.00%	29	55.77%	10	19.23%	52	100.00%
Fall 2018	3	2.70%	34	30.63%	61	54.95%	13	11.71%	111	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	3	1.84%	47	28.83%	90	55.21%	23	14.11%	163	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	
Spring 2019	1	4.35%	0	0.00%	21	91.30%	1	4.35%	23	100.00%
Fall 2018	1	1.49%	0	0.00%	56	83.58%	10	14.93%	67	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	2	2.22%	0	0.00%	77	85.56%	11	12.22%	90	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	
Spring 2019	1	4.35%	0	0.00%	21	91.30%	1	4.35%	23	100.00%
Fall 2018	6	8.96%	0	0.00%	49	73.13%	12	17.91%	67	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	7	7.78%	0	0.00%	70	77.78%	13	14.44%	90	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	
Spring 2019	1	4.35%	0	0.00%	21	91.30%	1	4.35%	23	100.00%
Fall 2018	2	2.99%	0	0.00%	62	92.54%	3	4.48%	67	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	3	3.33%	0	0.00%	83	92.22%	4	4.44%	90	100.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	5	2.55%	40	20.41%	131	66.84%	20	10.20%	196	100.00%
Fall 2018	24	4.90%	60	12.24%	352	71.84%	54	11.02%	490	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	29	4.23%	100	14.58%	483	70.41%	74	10.79%	686	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 2019	14	15.91%	0	0.00%	73	82.95%	1	1.14%	88	100.00%
Fall 2018	32	37.21%	0	0.00%	47	54.65%	7	8.14%	86	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	46	26.44%	0	0.00%	120	68.97%	8	4.60%	174	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 2019	15	17.05%	0	0.00%	30	34.09%	43	48.86%	88	100.00%
Fall 2018	32	37.21%	0	0.00%	50	58.14%	4	4.65%	86	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	47	27.01%	0	0.00%	80	45.98%	47	27.01%	174	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 2019	14	15.91%	0	0.00%	71	80.68%	3	3.41%	88	100.00%
Fall 2018	32	37.21%	0	0.00%	47	54.65%	7	8.14%	86	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	46	26.44%	0	0.00%	118	67.82%	10	5.75%	174	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 2019	14	15.91%	0	0.00%	41	46.59%	33	37.50%	88	100.00%
Fall 2018	32	37.21%	0	0.00%	51	59.30%	3	3.49%	86	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	46	26.44%	0	0.00%	92	52.87%	36	20.69%	174	100.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	57	16.19%	0	0.00%	215	61.08%	80	22.73%	352	100.00%
Fall 2018	128	37.21%	0	0.00%	195	56.69%	21	6.10%	344	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	185	26.58%	0	0.00%	410	58.91%	101	14.51%	696	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 2019	2	5.41%	0	0.00%	35	94.59%	0	0.00%	37	100.00%
Fall 2018	4	10.81%	0	0.00%	31	83.78%	2	5.41%	37	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	6	8.11%	0	0.00%	66	89.19%	2	2.70%	74	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 2019	1	2.70%	0	0.00%	35	94.59%	1	2.70%	37	100.00%
Fall 2018	4	10.81%	0	0.00%	31	83.78%	2	5.41%	37	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	5	6.76%	0	0.00%	66	89.19%	3	4.05%	74	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 2019	5	13.51%	0	0.00%	32	86.49%	0	0.00%	37	100.00%
Fall 2018	4	10.81%	0	0.00%	30	81.08%	3	8.11%	37	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	9	12.16%	0	0.00%	62	83.78%	3	4.05%	74	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 2019	6	16.22%	0	0.00%	30	81.08%	1	2.70%	37	100.00%
Fall 2018	4	10.81%	0	0.00%	32	86.49%	1	2.70%	37	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	10	13.51%	0	0.00%	62	83.78%	2	2.70%	74	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 2019	4	10.81%	0	0.00%	32	86.49%	1	2.70%	37	100.00%
Fall 2018	4	10.81%	0	0.00%	31	83.78%	2	5.41%	37	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	8	10.81%	0	0.00%	63	85.14%	3	4.05%	74	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 2019	5	13.51%	0	0.00%	30	81.08%	2	5.41%	37	100.00%
Fall 2018	4	10.81%	0	0.00%	27	72.97%	6	16.22%	37	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	9	12.16%	0	0.00%	57	77.03%	8	10.81%	74	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 2019	4	10.81%	0	0.00%	31	83.78%	2	5.41%	37	100.00%
Fall 2018	4	10.81%	0	0.00%	29	78.38%	4	10.81%	37	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	8	10.81%	0	0.00%	60	81.08%	6	8.11%	74	100.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	27	10.42%	0	0.00%	225	86.87%	7	2.70%	259	100.00%
Fall 2018	28	10.81%	0	0.00%	211	81.47%	20	7.72%	259	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	55	10.62%	0	0.00%	436	84.17%	27	5.21%	518	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 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	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 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	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 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	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 2019	119	11.59%	166	16.16%	611	59.49%	131	12.76%	1027	100.00%
Fall 2018	219	13.36%	60	3.66%	1190	72.61%	170	10.37%	1639	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	338	12.68%	226	8.48%	1801	67.55%	301	11.29%	2666	100.00%