

SLO Performance Report

Program: Biology

Date: 11-02-2019

Terms: Spring 2019, Fall 2018, Summer 2018

BIOLB18: Essentials of Human Anatomy and Physiology

1. Upon completion of the course, the student will be able to Compare and contrast structure and function at the chemical through human organ system levels of organization.

	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%	23	48.94%	2	4.26%	22	46.81%	47	100.00%
Totals	0	0.00%	23	48.94%	2	4.26%	22	46.81%	47	100.00%

2. Upon completion of the course, the student will be able to Demonstrate independent and collaborative work on laboratory exercises operating basic lab equipment while using safety procedures.

	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	2	2.00%	0	0.00%	98	98.00%	0	0.00%	100	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	2	2.00%	0	0.00%	98	98.00%	0	0.00%	100	100.00%

3. Upon completion of the course, the student will be able to Apply homeostatic mechanisms to predict physiological outcomes.

	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	10	10.00%	0	0.00%	67	67.00%	23	23.00%	100	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	10	10.00%	0	0.00%	67	67.00%	23	23.00%	100	100.00%

4. Upon completion of the course, the student will be able to Use proper anatomy and physiology terminology.

	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	1	2.13%	0	0.00%	37	78.72%	9	19.15%	47	100.00%
Totals	1	2.13%	0	0.00%	37	78.72%	9	19.15%	47	100.00%

5. Upon completion of the course, the student will be able to Evaluate information regarding the human body and medical issues relevant to real-life examples

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	8	8.79%	0	0.00%	64	70.33%	19	20.88%	91	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	30	63.83%	15	31.91%	2	4.26%	47	100.00%
Totals	8	5.80%	30	21.74%	79	57.25%	21	15.22%	138	100.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	8	8.79%	0	0.00%	64	70.33%	19	20.88%	91	100.00%
Fall 2018	12	6.00%	0	0.00%	165	82.50%	23	11.50%	200	100.00%
Summer 2018	1	0.71%	53	37.59%	54	38.30%	33	23.40%	141	100.00%
Totals	21	4.86%	53	12.27%	283	65.51%	75	17.36%	432	100.00%

BIOLB16: General Microbiology

Upon completion the student will be able to: Compare and contrast the characteristics for various microbes with regards to infections, treatment, and control. (This includes prions, viruses, bacteria, protozoans, and multicellular parasites.)

	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	1	1.22%	44	53.66%	0	0.00%	37	45.12%	82	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	1.22%	44	53.66%	0	0.00%	37	45.12%	82	100.00%

Explain the dynamics of commensal, opportunistic, and pathological relationships particularly between microbes and humans.

	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	1	1.22%	63	76.83%	0	0.00%	18	21.95%	82	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	1.22%	63	76.83%	0	0.00%	18	21.95%	82	100.00%

Evaluate and apply the proper methods of microbial control necessary in sample scenarios or case studies.

	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%

Describe microbial metabolic pathways in general terms and specifically evaluate the implications for food production and human disease.

	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%

Summarize basic bacterial genetic principles and analyze consequences of mutation and genetic recombination.

	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%

Articulate and diagram the role of the immune system in maintaining homeostasis, challenging infections, and fighting cancer.

	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	1	1.22%	32	39.02%	0	0.00%	49	59.76%	82	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	1	1.22%	32	39.02%	0	0.00%	49	59.76%	82	100.00%

Apply the scientific method by stating a question; researching the topic; determining appropriate tests; performing tests; collecting, analyzing, and presenting data; and finally proposing new questions about the topic.

	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%

Correctly perform microbiologic lab skills and safety practices which extend to relevant situations in the student's homes.

	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%

Retrieve, evaluate, and use contemporary microbiologic information.

	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	3	1.22%	139	56.50%	0	0.00%	104	42.28%	246	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	3	1.22%	139	56.50%	0	0.00%	104	42.28%	246	100.00%

BIOLB21: Special Projects in Biology

Upon completion of the course, the student will be able to: Collect, assemble, maintain and organize biological collections

	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%

Select and evaluate biological materials needed for laboratory preparation

	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%

Analyze a biological topic or concept which the student judges to be difficult for other students to learn or understand. The student must create, organize, prepare and present to students an activity designed to help them grasp the biological topic

	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%

Design and organize a pre-exam review session including: examining topics to distinguish importance, creating review questions &/or activities and suggesting effective study techniques.

	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%

BIOLB32: Human Anatomy and Physiology I

Describe and distinguish various roles of major classes of biomolecules in living cells.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	5	29.41%	0	0.00%	7	41.18%	5	29.41%	17	100.00%
Fall 2018	36	28.80%	0	0.00%	65	52.00%	24	19.20%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	41	28.87%	0	0.00%	72	50.70%	29	20.42%	142	100.00%

Demonstrate an understanding of how homeostasis is maintained in the body.

	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	36	28.80%	0	0.00%	81	64.80%	8	6.40%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	36	28.80%	0	0.00%	81	64.80%	8	6.40%	125	100.00%

Analyze experimental data to demonstrate physiological principles.

	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	36	28.80%	0	0.00%	62	49.60%	27	21.60%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	36	28.80%	0	0.00%	62	49.60%	27	21.60%	125	100.00%

Demonstrate an understanding of the scientific method, experimental design, and the philosophy of science. Apply the scientific method and philosophy of science by designing components of and carrying out physiological experiments.

	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	36	28.80%	0	0.00%	67	53.60%	22	17.60%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	36	28.80%	0	0.00%	67	53.60%	22	17.60%	125	100.00%

Describe key structural features of different human cells and major tissue types.

	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	36	28.80%	0	0.00%	71	56.80%	18	14.40%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	36	28.80%	0	0.00%	71	56.80%	18	14.40%	125	100.00%

Identify and describe the anatomy of the systems of the human body.

	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	36	28.80%	0	0.00%	53	42.40%	36	28.80%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	36	28.80%	0	0.00%	53	42.40%	36	28.80%	125	100.00%

Identify key functions of major organ systems and the physiological mechanisms underlying their operation.

	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	36	28.80%	0	0.00%	50	40.00%	39	31.20%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	36	28.80%	0	0.00%	50	40.00%	39	31.20%	125	100.00%

Relate structure and function at the cellular through system levels of organization of human body systems

	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	36	28.80%	0	0.00%	77	61.60%	12	9.60%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	36	28.80%	0	0.00%	77	61.60%	12	9.60%	125	100.00%

Describe structural or anatomical changes that occur in disease, injury or aging of the human body systems.

	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	36	28.80%	0	0.00%	27	21.60%	62	49.60%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	36	28.80%	0	0.00%	27	21.60%	62	49.60%	125	100.00%

Demonstrate knowledge of metabolic and physiological disorders of the major organ systems.

	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	36	28.80%	0	0.00%	71	56.80%	18	14.40%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	36	28.80%	0	0.00%	71	56.80%	18	14.40%	125	100.00%

Describe key functional features of different types of human cells and how they communicate.

	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	36	28.80%	0	0.00%	77	61.60%	12	9.60%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	36	28.80%	0	0.00%	77	61.60%	12	9.60%	125	100.00%

Demonstrate an understanding of how organ systems of the body are integrated and regulated.

	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	36	28.80%	0	0.00%	61	48.80%	28	22.40%	125	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	36	28.80%	0	0.00%	61	48.80%	28	22.40%	125	100.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	5	29.41%	0	0.00%	7	41.18%	5	29.41%	17	100.00%
Fall 2018	432	28.80%	0	0.00%	762	50.80%	306	20.40%	1500	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	437	28.81%	0	0.00%	769	50.69%	311	20.50%	1517	100.00%

BIOLB33: Human Anatomy and Physiology II

Describe and distinguish various roles of major classes of biomolecules in living cells.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	71	65.74%	31	28.70%	108	100.00%
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	6	5.56%	0	0.00%	71	65.74%	31	28.70%	108	100.00%

Demonstrate an understanding of how homeostasis is maintained in the body.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	97	89.81%	5	4.63%	108	100.00%
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	6	5.56%	0	0.00%	97	89.81%	5	4.63%	108	100.00%

Analyze experimental data to demonstrate physiological principles.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	77	71.30%	25	23.15%	108	100.00%
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	6	5.56%	0	0.00%	77	71.30%	25	23.15%	108	100.00%

Demonstrate an understanding of the scientific method, experimental design, and the philosophy of science. Apply the scientific method and philosophy of science by designing components of and carrying out physiological experiments.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	88	81.48%	14	12.96%	108	100.00%
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	6	5.56%	0	0.00%	88	81.48%	14	12.96%	108	100.00%

Describe key structural features of different human cell and major tissue types.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	62	57.41%	40	37.04%	108	100.00%
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	6	5.56%	0	0.00%	62	57.41%	40	37.04%	108	100.00%

Identify and describe the anatomy of the systems of the human body.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	90	83.33%	12	11.11%	108	100.00%
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	6	5.56%	0	0.00%	90	83.33%	12	11.11%	108	100.00%

Identify key functions of major organ systems and the physiological mechanisms underlying their operation.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	77	71.30%	25	23.15%	108	100.00%
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	6	5.56%	0	0.00%	77	71.30%	25	23.15%	108	100.00%

Relate structure and function at the cellular through system levels of organization of human body systems

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	88	81.48%	14	12.96%	108	100.00%
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	6	5.56%	0	0.00%	88	81.48%	14	12.96%	108	100.00%

Describe structural or anatomical changes that occur in disease, injury or aging of the human body systems.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	94	87.04%	8	7.41%	108	100.00%
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	6	5.56%	0	0.00%	94	87.04%	8	7.41%	108	100.00%

Demonstrate knowledge of metabolic and physiological disorders of the major organ systems.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	61	56.48%	41	37.96%	108	100.00%
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	6	5.56%	0	0.00%	61	56.48%	41	37.96%	108	100.00%

Describe key functional features of different types of human cells and how they communicate.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	61	56.48%	41	37.96%	108	100.00%
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	6	5.56%	0	0.00%	61	56.48%	41	37.96%	108	100.00%

Demonstrate an understanding of how organ systems of the body are integrated and regulated.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	6	5.56%	0	0.00%	41	37.96%	61	56.48%	108	100.00%
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	6	5.56%	0	0.00%	41	37.96%	61	56.48%	108	100.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	72	5.56%	0	0.00%	907	69.98%	317	24.46%	1296	100.00%
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	72	5.56%	0	0.00%	907	69.98%	317	24.46%	1296	100.00%

BIOLB3A: General Biology I

Upon completion of the course, students will be able to: demonstrate knowledge about the essential elements of life, major hypothesis for life's history, and mechanisms for the diversification of life.

	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%

Students will compare and contrast the development , life cycles, anatomical and physiological characteristics of major taxa of organisms.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	12	9.38%	17	13.28%	3	2.34%	96	75.00%	128	100.00%
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	12	9.38%	17	13.28%	3	2.34%	96	75.00%	128	100.00%

Students will evaluate the relationships of organisms to each other and their environments.

	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%

Students will describe and identify key characteristics and classify representative specimens down to representative phyla.

	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%

Students will apply the processes of scientific inquiry and phylogenetic analysis to the diversity of organisms.

	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	12	9.38%	17	13.28%	3	2.34%	96	75.00%	128	100.00%
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	12	9.38%	17	13.28%	3	2.34%	96	75.00%	128	100.00%

BIOLB3B: General Biology II

Upon completion of this course, the student will be able to research a topic relevant to course material, design experiments, synthesize and evaluate their data and communicate their findings both orally and in a written format.

	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%

Illustrate the mechanism of evolution by natural selection and consider how this process is the unifying theme in Biology.

	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%

Identify, describe and compare the functions of prokaryotic and eukaryotic cells structures and biological macromolecules.

	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%

Compare and contrast catabolic and anabolic metabolic pathways, cellular communication and cellular division of prokaryotic and eukaryotic cells. .

	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%

Illustrate and describe the structure and replication of DNA, transcription of DNA and translation of mRNA into proteins.

	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%

Solve genetic problems by employing the fundamentals of Mendelian genetics.

	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%

BIOLB8: Introduction to Environmental Science

1. Upon successful completion of the course, the student will be able to identify and describe major global, regional and local environmental issues.

CSLO not included in any Assessment Rubric

2. Upon successful completion of the course, the student will be able to analyze the scientific basis of major environmental issues by interpreting quantitative data and creating visual representations of data in order to identify and evaluate potential solutions.

CSLO not included in any Assessment Rubric

3. Upon successful completion of the course, the student will be able to investigate relationships between human actions and environmental issues and examine the impacts of these issues on human populations.

CSLO not included in any Assessment Rubric

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%

BIOLB11: Concepts of Biology

research a topic, design experiments, synthesize and evaluate the information, justify and express their opinions.

	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%

identify various cells and their structural components, and differentiate the functions of each of their components.

	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%

1) understand the significance of DNA as the basis for heredity, structure, function and disease in living organisms; 2) describe the DNA molecule and explain how it is used in living systems to create proteins; and 3) describe how proteins function in living cells.

	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%

describe the organs found in selected human organ systems, then explain the role played by each organ in the overall functioning of that system.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	1	3.85%	12	46.15%	7	26.92%	6	23.08%	26	100.00%
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	1	3.85%	12	46.15%	7	26.92%	6	23.08%	26	100.00%

compare and contrast characteristics of various organisms particularly related to energy sources (feeding style), cellular composition, reproduction and relationship to the ecosystem.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	2	7.69%	18	69.23%	6	23.08%	0	0.00%	26	100.00%
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	2	7.69%	18	69.23%	6	23.08%	0	0.00%	26	100.00%

1) describe the flow of energy through the ecosystem, then construct a food web, placing specific species of organisms at each level; 2) choose a common ecosystem disturbance of human origin and predict the effects of that disturbance on a food web and understand the complexity of ecosystems and environmental issues.

	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%

1) recognize, value, and apply major biological concepts contributing to current issues in the biological realm; and 2) apply critical thinking skills to formulate and defend a position on a controversial issue of biological importance.

	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%	16	80.00%	4	20.00%	0	0.00%	20	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	0	0.00%	16	80.00%	4	20.00%	0	0.00%	20	100.00%

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	3	5.77%	30	57.69%	13	25.00%	6	11.54%	52	100.00%
Fall 2018	0	0.00%	16	80.00%	4	20.00%	0	0.00%	20	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	3	4.17%	46	63.89%	17	23.61%	6	8.33%	72	100.00%

Report Totals:

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	100	6.31%	47	2.97%	994	62.75%	443	27.97%	1584	100.00%
Fall 2018	447	22.74%	155	7.88%	931	47.36%	433	22.02%	1966	100.00%
Summer 2018	1	0.71%	53	37.59%	54	38.30%	33	23.40%	141	100.00%
Totals	548	14.85%	255	6.91%	1979	53.62%	909	24.63%	3691	100.00%