BIOL 1090

Department Wide Final

Exam Assessment

Spring Semester 2013

941 Students

38 Lecture Sections

2 Full-time Faculty Members

17 Adjunct Faculty Members



Step Ahead.



Assessment Results listed by Course Objective

-	BIOL 1090 Departmental Final Exam Spring		
Question#	Course Objective	Proficiency	St Deviation
	Distinguish between a hypothesis and a theory	Average	Standard
2.0	Illustrate the difference between anecdotal evidence and credible evidence.	68.89%	0.11
3.0	List the commonalities shared by living organisms.	77.82%	0.16
	State the four biological macromolecules and explain the function of each.	47.88%	0.18
	Describe the basic concept of pH and the pH scale.	58.81%	0.21
	Differentiate between the maior cell components by explaining the function of	77.85%	0.17
	Compare and contrast diffusion. osmosis. and active transport.	61.46%	0.13
	Illustrate the role of enzymes in metabolism.	91.46%	0.11
	Describe the basic steps of cellular respiration.	79.95%	0.17
	Describe where cellular respiration occurs and explain the role of oxygen.	77.51%	0.19
	Use the greenhouse effect to show the relationship between rising CO2 and	63.05%	0.12
	Define a mutation and explain why mutations can result in genetic disease.	29.57%	0.29
	Explain how mutations can lead to the formation of cancer cells.	59.49%	0.10
	Describe mitotic cell division (mitosis) as the process that generates the vast	39.50%	0.19
	Describe the cellular and chromosomal ramifications of mitosis and meiosis.	56.33%	0.16
	Identify and explain the main processes that contribute to genetic diversity.	57.31%	0.14
	Use examples to contrast genotype and phenotype. Define heritability.	75.71% 69.69%	0.12 0.12
	Define codominance and incomplete dominance.	50.03%	0.09
	Define sex-linked traits and explain why recessive sex-linked traits	52.92%	0.09
	Diagram the flow of information from DNA to protein.	70.76%	0.05
	Define the term genetically modified organism dihybrids.	51.43%	0.12
	Define natural selection.	33.13%	0.19
	Give examples of the five sources of evidence that support the theory of evolution.	81.19%	0.20
	Illustrate the role of natural selection in the rise of antibiotic-resistant bacteria.	32.66%	0.22
	Summarize the concept of human races and the effects of cultural influence.	74.74%	0.25
	Describe in detail the biological classification of human beings.	82.22%	0.18
	State the basic functions of the four different types of tissues, and name major	69.75%	0.16
	Diagram the path of food as it passes through the digestive system	74.90%	0.20
	Explain the important interaction between the digestive and circulatory systems for	67.77%	0.14
	Describe the order, and basic structure and function of the respiratory tract	75.13%	0.19
	Describe the structure and function of alveoli, including their relationship with	76.04%	0.16
	Describe the basic structure and function of the heart.	75.21%	0.13
	Describe the systemic circuit and pulmonary circuit of the cardiovascular system.	53.67%	0.12
	Name the major arteries, and the body regions they supply:	82.41%	0.22
	Describe the basic structure and function of the urinary system.	46.24%	0.26
	Explain the difference between genetic and infectious disease.	72.10%	0.21
	Name and define the components of the three lines of defense and illustrate the	41.64%	0.23
	functions of each.	12.0	
	Describe the basic structure and function of the endocrine system.	47 520/	0.12
	Describe the basic structure and function of the musculoskeletal system	47.53% 53.73%	0.13 0.20
	Name the functions of the major axial muscles of the body.	26.95%	0.20
	Name the functions of the major appendicular muscles of the upper limbs.	67.54%	0.23
	Name the functions of the major appendicular muscles of the lower limbs.	86.39%	0.09
44.0	Locate the major bones of the body.	56.51%	0.05
45.0	Label a diagram of the male and female reproductive structures and describe the	74.37%	0.17
46.0	Summarize the key stages of development from zygote to	65.86%	0.14
47.0	Describe how neurotransmitters are the chemical signals that	68.56%	0.12
	Cross the synaptic gap between neurons and their target cells.	00.30/0	0.13
	Describe the overall plan of the nervous system.	34.04%	0.20
	Describe the overall plan of the hervous system. Describe the basic functions of the lobes of the cerebral cortex, the thalamus and	34.04% 46.71%	0.20
	Describe the basic functions of the brainstem, the cerebellum and the spinal cord.	55.88%	0.09