

J. Sargeant P81613 Course Description

Focuses on biological processes with a chemical foundation, including macromolecules,



- x Describe the processes by which genes flow between populations
- x Describe the processes that disrupt gene flow between populations
- x Discuss the concept of phylogeny and its significance in understanding evolutionary relationships
- x Describe the system of classifying organisms and list the modern tools used in the process

Multicellularity : Evolution of multicellularity

Core competencies : 1, 4, 5, and 6

- x Summarize the current theories on the evolution of the 3 domains of life
- x Identify the major characteristics of the three life domains
- x Explain current theories on the evolution of multicellular organisms
- x List the major divisions of eukaryotes and describe their evolutionary relationships

Overview of the Animal Kingdom: Animal classification, Animal Structure and Function Homeostasis, Animal Tissues, Organ systems

Core competencies : 4, 5, and 6

- x Describe the current understanding of diversity and evolutionary relationships among major animal groups
- x Identify the major landmarks in human evolution.
- x Compare and contrast positive feedback and negative feedback controls
- x Identify the types of animal tissues and describe the tissue characteristics
- x List the major organ systems in animals
- x Describe the functions of selected organ systems

Overview of the Plant Kingdom: Plant evolution, Plant structure and function, Plant transport and function, Plant reproduction

Core competencies : 4, 5, and 6

x

