

DATE: February 28, 1992

Division: ACADEMIC

B: Department: SCIENCE & MATHEMATICS

New Course: X

Revision of Course
Information form:

DATED: _____

chased by students

N: Textbooks and materials to be purchased
(Use Bibliographic Form):

West Publishing

1 ... Snodgrass, A.P. and E.B. Mason, Human Anatomy and Physiology
Co. St. Paul, Minn. 1992

2 ... Biology 109 Laboratory Manual

Course Content

structure and function

1. CELLS

- cell division

2. PASSIVE PROCESSES

diffusion and osmosis

3. TISSUES

epithelial, connective, muscle and nervous tissue

- structure and function of epithelial, connective, muscular and nervous tissue

4. HOMEOSTASIS

- stress and homeostasis
- negative feedback mechanisms
- positive feedback mechanisms

5. BODY STRUCTURE AND ORGANIZATION

levels of structural organization

- directional terms
- body planes
- body cavities
- body systems

3. MUSCULAR SYSTEM / muscle types

myoelectric characteristics

- muscle growth and development

- skeletal muscle

- types of fibers

- gross anatomy

microscopic anatomy

mechanism of contraction

kinds of contractions

- smooth muscle structure and function

- cardiac muscle structure and function

muscle homeostasis

muscle homeostasis

- muscle disorders

- principal skeletal muscles

4. NERVOUS SYSTEM / organization of CNS, NS, ANS

- growth and development

- brain structure and function

- spinal cord structure and function