COLLEGEWIDE COURSE OUTLINE OF RECORD

APHY 101, ANATOMY AND PHYSIOLOGY I

COURSE TITLE: Anatomy and Physiology I
COURSE NUMBER: APHY 101
PREREQUISITES: Demonstrated competency through appropriate assessment or earning a grade of “C” or better in ENGL 025 Introduction to College Writing II or ENGL 093 Introduction to College Writing and ENGL 032 Reading Strategies for College II or ENGL 083 Reading Strategies for College and MATH 015 Fundamentals of Algebra I or MATH 023 Essentials of Algebra I.
SCHOOL: Liberal Arts and Sciences
PROGRAM: Liberal Arts
CREDIT HOURS: 3
CONTACT HOURS: Lecture: 2 Labs: 2
DATE OF REVISION: Fall, 2012
EFFECTIVE DATE OF THIS REVISION: Fall, 2013

CATALOG DESCRIPTION: Develops a comprehensive understanding of the close inter-relationship between anatomy and physiology as seen in the human organism. Introduces students to the cell, which is the basic structural and functional unit of all organisms, and covers tissues, integument, skeleton, muscular and nervous systems as an integrated unit.

MAJOR COURSE LEARNING OBJECTIVES: Upon successful completion of this course the student, through lecture and laboratory activities, will be expected to:

1. List the basic requirements of the human body to sustain life.
2. Identify and describe the structural hierarchy and levels of organization of the human body.
3. Identify and describe the structure and function of the human organ systems.
4. Communicate in anatomical, directional, and medical terminology.
5. Explain the relationship of anatomy and physiology to basic health and pathology.
6. Explain the relationships between the chemical components of the body and its structure and metabolism.
7. Identify and describe the structure and functions of the cellular organelles.
8. Differentiate among the processes for movement through membranes.
9. Identify and describe the structure, function, and distribution of the four different tissue types.
10. Identify and describe the structure and function of the skin and accessory structures.
11. Identify and describe the histology, development, gross anatomy, and physiology of bone.
12. Classify structurally and functionally the major joints of the human body.
13. Identify and describe the histology, gross anatomy, and physiology of muscle.
14. Identify and describe the structure and function of the nervous system.
15. Demonstrate proper use and understanding of: laboratory safety procedures and laboratory equipment such as microscopes and dissecting instruments.
16. Demonstrate introductory dissection skills.
COURSE CONTENT: Topical areas of study to be covered in lecture and laboratory include:

Lecture Content:
Introduction to Human Anatomy and Physiology
Chemical Basis of Life
Cell Biology
Tissues
Integumentary System
Skeletal System
Joint Structure and Function
Muscular System
Nervous System – including the special senses

Laboratory Content:
Suggested Topics/Activities:

Anatomical orientation and terminology; planes, cavities, regions
Cell division
Microscope use
Basic structure of a cell
Osmosis and diffusion
Chemical basis of life
Histology: identification, structure, function, and location of tissue types including integument
Integumentary System
Anatomical identification of the skeletal system using articulating and disarticulating models
Joint structure/function, joint movements
Identification of location and actions of major skeletal muscles
Nervous system anatomy including brain and eye dissection
Sensory testing

HOW TO ACCESS THE IVY TECH COMMUNITY COLLEGE LIBRARY:

The Ivy Tech Library is available to students’ on- and off-campus, offering full text journals and books and other resources essential for course assignments. Go to [http://www.ivytech.edu/library/](http://www.ivytech.edu/library/) and choose the link for your campus.

ACADEMIC HONESTY STATEMENT:

The College is committed to academic integrity in all its practices. The faculty value intellectual integrity and a high standard of academic conduct. Activities that violate academic integrity undermine the quality and diminish the value of educational achievement.

Cheating on papers, tests or other academic works is a violation of College rules. No student shall engage in behavior that, in the judgment of the instructor of the class, may be construed as cheating. This may include, but is not limited to, plagiarism or other forms of academic
dishonesty such as the acquisition without permission of tests or other academic materials and/or distribution of these materials and other academic work. This includes students who aid and abet as well as those who attempt such behavior.

COPYRIGHT STATEMENT:

Students shall adhere to the laws governing the use of copyrighted materials. They must insure that their activities comply with fair use and in no way infringe on the copyright or other proprietary rights of others and that the materials used and developed at Ivy Tech Community College contain nothing unlawful, unethical, or libelous and do not constitute any violation of any right of privacy.

ADA STATEMENT:

Ivy Tech Community College seeks to provide reasonable accommodations for qualified individuals with documented disabilities. If you need an accommodation because of a documented disability, please contact the Office of Disability Support Services.

If you will require assistance during an emergency evacuation, notify your instructor immediately. Look for evacuation procedures posted in your classroom.