

# COLLEGEWIDE COURSE OUTLINE OF RECORD

## ANP 102, ANATOMY AND PHYSIOLOGY II

COURSE TITLE: Anatomy and Physiology II

COURSE NUMBER: ANP 102

PREREQUISITES: ANP 101, Anatomy and Physiology I and demonstrated competency through appropriate assessment or earning a grade of "C" or better in MAT 050, Basic Algebra,

DIVISION: General Education

PROGRAM: General Education

CREDIT HOURS: 3

CONTACT HOURS: Lecture: 2 Lab: 2

DATE OF REVISION: Fall, 2004

EFFECTIVE DATE OF THIS REVISION: Fall, 2005

CATALOG DESCRIPTION: Continues the study of the inter-relationships of the systems of the human body. Introduces students to the study of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems.

MAJOR COURSE LEARNING OBJECTIVES: Upon successful completion of this course the student will be expected to:

1. List the basic requirements of the human body to sustain life.
2. Describe the structural hierarchy and levels of organization of the human body.
3. 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. Identify and describe the structure, function, location, and secretions of the endocrine glands.
7. Identify and describe the formation, composition, functions, and types of blood.
8. Identify and describe the structure, function, and location of the heart and major blood vessels.
9. Identify and describe the structure, pathways, and function of the lymphatic system.
10. Identify and describe the structure and function of the respiratory system.
11. Identify and describe the structure and function of the digestive system.
12. Explain how nutrients function in metabolism, energy balance, and hormonal control.
13. Identify and describe the structure and function of the urinary system, including fluid and electrolyte balance.
14. Identify and describe the structure and function of the reproductive system.
15. Demonstrate proper use and understanding of: laboratory safety procedures; laboratory equipment such as microscopes, dissecting instruments, and physiologic instrumentation; and analyses.
16. Demonstrate dissection skills.

COURSE CONTENT: Topical areas of study to be covered in lecture and laboratory include:

Lecture Content:

Endocrine system  
Blood  
Cardiovascular System  
Lymphatic System and Immunity  
Respiratory system  
Digestive system  
Urinary system/fluid, electrolytes and pH  
Reproductive System

Laboratory Content:

*Suggested Topics/Activities:*

Structure and location of endocrine glands  
Hormone activities  
Blood cell identification  
Blood typing  
Blood pressure  
Anatomy of the heart, including heart dissection  
Identification of major arteries and veins  
Histology and models of lymphatic system  
Critical thinking questions related to immunity  
Anatomy and histology of the respiratory system using models, slides, and/or dissection  
Lung volumes  
Urinalysis  
Anatomy and histology of the urinary system, including kidney dissection  
Anatomy and histology of the digestive system using models, slides, and/or dissection  
Enzyme activities  
Anatomy and histology of the reproductive system using models, slides and/or dissection

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.

ADA STATEMENT:

Ivy Tech State 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.