**1. COURSE TITLE:** Human Biology II

**2.** **COURSE NUMBER:** 1105 **CATALOG PREFIX:** BIOL

**3. PREREQUISITES:** BIOL 1104 Human Biology I

**4. COURSE TIME/LOCATION:**

**5. CREDIT HOURS:** 3 **LECTURE HOURS:** 3

 **LABORATORY HOURS:** 0 **LAB CONTACT HOURS:** 0

**6. FACULTY CONTACT INFORMATION:**

**Instructor:**

**Email:**

**Phone:**

**Office Hours:**

**7. COURSE DESCRIPTION:**

A continuation of BIOL 1104. Human systems examined include cardiovascular, digestive, respiratory, urinary, skeletal, muscular and immune. The course also includes an examination of the DNA to protein connection and discusses the basics of biotechnology, evolution, ecology and human impacts on the environment. For non-science majors.

**8. LEARNING OBJECTIVES:**

 Upon completion of this course the student will be able to:

1. Describe the anatomy of the circulatory system, as well as the physiology of capillary exchange, cardiac cycle and blood pressure.
2. Describe the composition and function of the blood.
3. Describe the structure and physiology of the digestive system.
4. Demonstrate an understanding of basic nutrition.
5. Describe the structure and function of human respiration and excretion.
6. Recognize the structure and function of the musculoskeletal systems.
7. Describe the immune response.
8. Describe the characteristics of various pathogens and the disease processes.
9. Describe the structure and replication of nucleic acids.
10. Diagram the process of protein synthesis.
11. Describe the concepts of evolution, ecology, and human impact on the environment

**9. ADOPTED TEXT(S):**

*Biology of Humans Concepts, Applications, and Issues, 2017* with MyLab and Mastering Access Card Package

6th edition, Goodenough/McGuire

Pearson, ISBN: 0-13-404544-0

**10. OTHER REQUIRED BOOKS, SOFTWARE, AND MATERIALS:**

The materials that accompany the text.

**11. GRADING**

Grading will follow policy in college catalog. The scale is as follows:

 **A 90 – 100**

 **B 90 – 89**

 **C 70 – 79**

 **D 60 – 69**

 **F 0 – 59**

**12. GRADING PROCEDURES OR ASSESSMENTS (SAMPLE):**

**Grades will be based on:**

Tests 50%

Midterm and Final Exams 10%

Mastering assignments 25%

Research Paper 10%

Miscellaneous assignments 5%

Total Possible Points: 100%

**13. COURSE METHODOLOGY**

This course may use lecture, discussions, videos, and PowerPoint presentations. The course may include work projects, research papers, and online activities. Both written and online quizzes, tests, and exams will be used as appropriate to assess the course objectives.

**14. COURSE OUTLINE:**

 **Lecture Material:**

 Chapter 11 – Blood

 Chapter 12 – Cardiovascular and Lymphatic Systems: Heart and Blood Vessels

 Chapter 13 – Body Defense Mechanisms and Infectious Disease

Chapter 14 – The Respiratory System

Chapter 15 – Digestive System and Nutrition

 Chapter 16 – Urinary System and Excretion

 Chapter 5 – Skeletal System

 Chapter 6 – Muscular System

 Chapter 21 – DNA and Biotechnology

Chapter 22 – Evolution and our Heritage

Chapter 23 – Ecology, the Environment, and Us

Chapter 24 – Human Population, Limited Resources, and Pollution

**SAMPLE** Course Calendar

|  |  |  |
| --- | --- | --- |
| Week |  | **SLO** |
|  (1) | Lecture – Ch 11 Blood **Ch 11 Quiz; Mastering Activity**: The Cardiovascular System I: Blood  | **1-2** |
|  (2) | Lecture – Ch 12 The Cardiovascular and Lymphatic Systems, Ch 12a Cardiovascular Disease **Ch 12 Quiz; Mastering Activity**: The Cardiovascular System II: Heart and Blood Vessels  | **1** |
|  (3) | Lecture – Ch 13 Body Defense Mechanisms **Ch 13 Quiz**  | **7-8** |
|  (4) | Lecture – Ch 13a Infectious Diseases**Ch 13a Quiz; Mastering Activity**: The Immune System | **5** |
| (5) | **Test 1** – Ch 11, 12, 12a, 13 and 13aLecture – Ch 14 The Respiratory System **Ch 14 Quiz; Mastering Activity**: The Respiratory System | **3-4** |
|  (6) | Lecture – Ch 15 The Digestive System and Nutrition**Ch 15 Quiz; Mastering Activity**: The Digestive System | **5** |
|  (7) | Lecture – Ch 16 The Urinary System **Ch 16 Quiz; Mastering Activity**: The Urinary System |  |
|  (8) | **Test 2** – Ch 14, 15, and 16 **Midterm Exam**  |  |
|  (9) | Lecture – Ch 5 The Skeletal System**Ch 5 Quiz; Mastering Activity**: The Skeletal System | **6** |
|  (10) | Lecture – Ch 6 The Muscular System**Ch 6 Quiz; Mastering Activity**: The Muscular System | **6** |
| (11) | **Test 3** – Ch 5 and 6 Lecture – Ch 21: DNA and Biotechnology**Ch 21 Quiz; Mastering Activity**: DNA, Biotechnology and Genetic Engineering | **9-10** |
| (12) | Lecture – Ch 22 Evolution and our Heritage**Ch 22 Quiz; Mastering Activity**: Evolution | **11** |
| (13) | **Test 4** – Ch 21 and 22Lecture – Ch 23 Ecology, the Environment, and Us**Ch 23 Quiz; Mastering Activity**: Ecology | **11** |
| (14) | Lecture – Ch 24 Human Population, Limited Resources, and Pollution**Ch 24 Quiz; Mastering Activity**: Human Impacts on the Environment**Research Paper Due** | **11** |
| (15) | **Test 5** – Ch 23-24 **Project presentations**  |  |
| (16) | **Final comprehensive exam**  |  |

**15. SPECIFIC MANAGEMENT REQUIREMENTS:**

Final grade in this course will be determined by mastery of course material. There will be quiz and Mastering assignments, periodic tests, and exams.

**16.** **OTHER INFORMATION:**

**FERPA:** Students need to understand that your work may be seen by others. Others may see your work when being distributed, during group project work, or if it is chosen for demonstration purposes. Students need to know that there is a strong possibility that your work may be submitted to other entities for the purpose of plagiarism checks.

**DISABILITIES**: Students with disabilities may contact the Disabilities Service Office, Central Campus, at 800-628-7722 or 937-393-3431 in the event accommodations are required.