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

**2.** **CATALOG PREFIX:** BIOL **COURSE NUMBER:** 1050

**3. PREREQUISITES:** BIOL 1104 or BIOL 1040 Human Biology I **COREQUISITE:** None

**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 1040. 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 OUTCOMES:**

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

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

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

*Biology of Humans* with Modified MyLab and Mastering Access Card Package

6th edition

Goodenough and McGuire

Pearson Publishing, 2017

ISBN: 978-0-13-432496-8 (includes Inclusive Access E-text and Mastering Access).

ISBN for students wanting a physical textbook (purchased separately) and Inclusive Access for Mastering only: 978-0-13-465674-8 (includes Mastering only).

ISBN for students not wanting Inclusive Access: 978-0-13-465674-8 (includes Mastering and E-text).

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

The Publisher’s supplemental materials that accompany the text, Microsoft Word and Microsoft PowerPoint.

**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 40%

Midterm and Final Exams 10%

My Lab and Mastering assignments 25%

Chapter Reviews and Discussions 10%

Research Paper 10%

Miscellaneous assignments 5%

Total: 100%

**13. COURSE METHODOLOGY**

This course may use face-to-face or recorded lecture, PowerPoint presentations, videos, in-class or online Discussions, chapter reading and writing assignments, individual or group projects, research papers, primary scientific literature, and online assignments, quizzes, and other activities. Both written and online quizzes, tests and exams may be used as appropriate to assess the course objectives.

**14. COURSE OUTLINE:**

**Lecture Material:**

Blood

Cardiovascular and Lymphatic Systems: Heart and Blood Vessels

Body Defense Mechanisms and Infectious Disease

The Respiratory System

Digestive System and Nutrition

Urinary System and Excretion

Skeletal System

Muscular System

DNA and Biotechnology

Evolution and our Heritage

Ecology, the Environment, and Us

Human Population, Limited Resources, and Pollution

**SAMPLE** **Course Calendar**

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

**16.** **FERPA:** Students need to understand that their 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.

**17.** **ACCOMMODATIONS: \***

Students requesting accommodations may contact Ryan Hall, Accessibility Coordinator at rhall21@sscc.edu or 937-393-3431, X 2604.

Students seeking a religious accommodation for absences permitted under Ohio’s Testing Your Faith Act must provide the instructor and the Academic Affairs office with written notice of the specific dates for which the student requires an accommodation and must do so no later than fourteen (14) days after the first day of instruction or fourteen (14) days before the dates of absence, whichever comes first. For more information about Religious Accommodations, contact Ryan Hall, Accessibility Coordinator at [rhall21@sscc.edu](mailto:rhall21@sscc.edu) or 937-393-3431 X 2604.

**18. OTHER INFORMATION:**

**SYLLABUS TEMPLATE KEY**

**\*** Item cannot be altered from that which is included in the master syllabus approved by the Curriculum Committee.

**\*\*** Any alteration or addition must be approved by the Curriculum Committee

**\*\*\*** Item should begin with language as approved in the master syllabus but may be added to at the discretion of the faculty member.