**ESSEX COUNTY COLLEGE**

**Course Outline**

**Student Learning Outcomes (SLO) Assessment Summary Sheet**

**Course Prefix & Number**: BIO 121 **Course Title**: Anatomy and Physiology I

**Credit Hours**: 4.0 **Contact Hours**: 6.0 **Name of Person Completing this Form**: J Stein & M W Asobayire

**Type of Course:** (Check **all** that apply.)

Developmental Not required for any program (not a major or additional requirement)/Other

AA program major requirement AS program major requirement AAS program major requirement

(General Science & Biology/Pre-Medicine Programs) (Nursing & Radiography Program)

AA program additional requirement AS program additional requirement AAS program additional requirement

(Dental Hygiene Program)

General Education affirmed course – if so, indicate the foundation category/ies the course is affirmed as addressing:

Written and Oral Communication Humanistic Perspective

Quantitative Knowledge and Skills Historical Perspective

Scientific Knowledge and Reasoning Global and Cultural Awareness of Diversity

Technological Competency/Information Literacy Ethics

Society and Human Behavior

**Student Learning Outcomes (SLOs)**:

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| --- | --- | --- | --- |
|  | **Detailed Goal (SLO)** | **Assessment Method** | **Introduction (I) or**  **Mastery (M)**  **of SLO** |
| **Course Goals** | Explain some of the fundamental concepts and theories that are the basis of the fields of biochemistry, cell biology and histology. | Blueprinting questions on short-answer tests, which may include multiple choice, fill-in-the-blank, matching, and diagram identification, and on laboratory practical exam.  Slide identification scored with a checklist rubric. | N/A |
| Explain the concept of compementarity of structure and function. Use this concept to identify the basis structures and functions of the integumentary, skeletal, muscular, and nervous systems. | Blueprinting questions on short-answer tests, which may include multiple choice, fill-in-the-blank, matching, and diagram identification.  Blueprinting laboratory practical exam. |
| Explain the concept of homeostasis. Describe how homeostasis can be used to illustrate wellness and illness in the integumentary, skeletal, muscular, and nervous systems. | Blueprinting questions on short-answer tests, which may include multiple choice, fill-in-the-blank, matching, and diagram identification. |
| **Program Goals\***  (if course is a major requirement) | Utilize critical thinking and problem-solving skills, including the scientific method and methods of scientific conversion. (General Science & Biology/Pre-Medicine programs) |  | I |
| Demonstrate a mastery of the fundamental concepts of biology, chemistry, and physics. (General Science program – partially addressed) |  | I |
| Perform scientific investigations using proper scientific and laboratory safety protocols. (General Science & Biology/Pre-Medicine programs) |  | M |
| Demonstrate a mastery of the fundamental concepts of inorganic chemistry, organic chemistry and biochemistry. (Biology/Pre-Medicine program) |  | I |
| Demonstrate a mastery of the fundamental concepts of biology at the genetic, molecular, cellular, tissue, organ, and organismal level. (Biology/Pre-Medicine program – partially addressed) |  | M |
| **Gen Ed Goals\***  (if course is a Gen Ed course) | **Scientific Knowledge and Reasoning:** Students will use the scientific method of inquiry through the acquisition of scientific knowledge. |  | M |

**\*** addressed by **THIS** specific course