# College of the Marshall Islands

## Course Outline

### CIP No. 26.0403

**SCI 210**  
**Anatomy & Physiology II**  
**Alpha Number**

## Course Description

Reviews cellular biology and levels of organization. Emphasizes structure and function of endocrine, digestive, respiratory, circulatory, urinary, lymphatic, and reproductive systems and human life cycle.

### Course prepared by:

<table>
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<tr>
<th>Lecture</th>
<th>Hours per Week</th>
<th>Number of Weeks</th>
<th>Total Hours</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>3</td>
<td>16</td>
<td>48</td>
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| Laboratory | 2.5 | 16 | 40 | 1 |
| Clinical   |     |    |    |   |
| Seminar    |     |    |    |   |
| Field      |     |    |    |   |

**Total Credit Hours**: 4

### Purpose of Course:

- Degree Requirement: X
- Degree Elective: X
- General Education: 
- Certification: 
- Developmental: 
- Community Education: 
- Other: 

### Prerequisite(s)

SCI 110 or SCI 120

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_Last Date reviewed or revised: April, 2014_
I. Anatomy and Physiology II

Course Title

II. Course Outcomes

A. General Learning Outcomes

The student will:

1. Explain the general anatomy and physiology of the human body with emphasis on the cellular and tissue levels of organization (LA 1, 3, 4) (NURS 1, 2, 5)
2. Describe the functions and physiology of the endocrine, digestive, respiratory, circulatory, urinary, lymphatic, and the reproductive systems (LA 1, 3, 4) (NURS 1, 2, 5)
3. Explain the basic principles of chemistry and its part in the normal maintenance of homeostasis and the homeostatic relationship which exists in the various organ systems of the human body. (LA 1, 3, 4) (NURS 1, 2, 5)
4. Describe and predict the anatomical and physiological results of disruptions to the normal status of the human organisms. (LA 1, 3, 4) (NURS 1, 2, 5)

B. Student Learning Outcomes

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

1. Use descriptive anatomical and directional terminology to describe atomic, molecular, cellular, and tissue levels of organization of the human body and their functions
2. Explain the relationship of the organ system's structure as it relates to its functions.
3. Explain how to balance homoeostatic mechanisms and describe the negative and positive feedback in maintaining this balance.
4. Explain the relationship between the anatomical and physiological alteration of the body systems

III. Course Content

This course reviews cellular and tissue organization and introduces endocrine, digestive, respiratory, circulatory, urinary, lymphatic, and reproductive systems and human life cycle.

1. Levels of organization
2. Integration and coordination
   a. Endocrine System
3. Transport
   a. Blood
   b. Cardiovascular system
   c. Lymphatic system and immunity
4. Absorption and excretion
   a. Digestion and nutrition
   b. Respiratory system
   c. Urinary system
   d. Water, electrolyte, and acid-base balance
5. The human life cycle
   a. Reproductive systems
   b. Pregnancy, growth, and development
IV. Methods of Instruction

1. Lectures
2. Discussions
3. Audio-visual presentations
4. Laboratory practicals
5. Computer tutorials

V. Equipment and Materials

1. LCD projector
2. Laboratory equipment and supplies
3. Classroom response system
4. Computers

VI. Suggested Methods of Evaluation

1. Exams
2. Quizzes
3. Lecture assignments
4. Laboratory reports
5. Laboratory practicals

Letter grades will be assigned per CMI Grading System.
# Course History Summary

**Course Number:** SC1210 *Anatomy & Physiology II (4)*

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