# College of the Marshall Islands
## Course Outline

### CIP No. 26.0101

#### SCI 120 Introduction to Biology

**Course Description**
Introduces molecular, cellular, environmental and microbial biology, genetics, and evolution.

**Course prepared by:**
Liberal Arts and Science

<table>
<thead>
<tr>
<th></th>
<th>Hours per Week</th>
<th>Number of Weeks</th>
<th>Total Hours</th>
<th>Credits</th>
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<tr>
<td>Lecture</td>
<td>3</td>
<td>16</td>
<td>48</td>
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<td>Laboratory</td>
<td>2.5</td>
<td>16</td>
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<td>Clinical</td>
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<td>Seminar</td>
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<tr>
<td>Field</td>
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**Total Credit Hours:** 4

**Purpose of Course:**
- Degree Requirement: X
- Degree Elective: X
- General Education: X
- Certification: 
- Developmental: 
- Community Education: 
- Other: 

**Prerequisite(s):**
ENG 101, ENG 105 and MATH 090s

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**Signature, Curriculum Committee Chairperson:**

**Date:** 5/23/14

**Signature, Dean of Academic Affairs:**

**Date:** 5/23/14

**Signature, Vice President of Academic and Student Affairs:**

**Date:** 5/23/14

**Last Date reviewed or revised:** May, 2014
I. Introduction to Biology

II. Course Outcomes

A. General Learning Outcomes

The student will:

1. Explain basic facts, principles, and theories in the development of the major concepts of biology (GE 1) (LA 1, 6) (NURS 1, 2)
2. Use scientific equipment in order to collect and analyze data critically (GE 1, 4, 5) (LA 1, 4) (NURS 2, 3, 5)
3. Communicate biological ideas effectively (GE 1, 4, 5) (LA 1, 4) (NURS 2, 3, 5)

B. Student Learning Outcomes

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

1. Explain the basics of cellular life, genetics, evolution, ecology and biophilia, as well as the diversity of biological life
2. Identify and properly use laboratory equipment as well as apply the scientific method in a simple experiment
3. Analyze and explain biological organisms and processes through equations, graphs and diagrams as well as use scientific terminology

III. Course Content

This course introduces molecular biology, cellular biology, genetics, evolution, biological kingdoms, and ecology.

1. Nature of science
2. Levels of organization
3. Emergent properties of life
4. Bioenergetics
5. Reproduction and the continuity of life
6. Genetics and diversity of life
7. Evolution
8. Ecology
9. Bioethics

IV. Methods of Instruction

1. Lectures and discussions
2. Weekly laboratory activities and experiments
3. Overhead/LCD and audio-visual presentations
4. Reading and writing assignments
5. Computer tutorials
V. **Equipment and Materials**

1. Projector
2. Computers
3. Laboratory supplies
4. Computer software and videos/DVD

VI. **Suggested Methods of Evaluation**

1. Exams
2. Quizzes
3. Laboratory reports
4. Oral laboratory reports
5. Group assignments

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

**Course Number**: SCI 120, *Introduction to Biology (4cr)*

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<th>Date from Minutes</th>
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<td>2-23-09</td>
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- Changed pre-reqs up.
- (Added ENG101/105)
- Added links GE/CL+ Nursing