# COLLEGE OF THE MARSHALL ISLANDS
## COURSE OUTLINE

**CIP No. 1.0000**

**SCI 101**

**Introduction to Agriculture**

**Course Description**
Introduction to agricultural concepts, technology, and practices. Explores agricultural development and how it improves the health of people and the environment.

**Course prepared by:**

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<th>Liberal Arts and Science</th>
<th>Jan/2003</th>
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**Total Credit Hours:** 4

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

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Signature, Curriculum Committee Chairperson: [Signature]

Date: 5/23/14

Signature, Dean of Academic Affairs: [Signature]

Date: 5/23/14

Signature, Vice President of Academic and Student Affairs: [Signature]

Date: 5/23/14

Last Date reviewed or revised: May 2014
I. Introduction to Agriculture

II. Course Outcomes

A. General Learning Outcomes

The student will:

1. Define and describe agricultural concepts and methods (GE 1, 4) (LA 1, 4, 6)
2. Define sustainability and community health (GE 1, 4) (LA 1, 4, 6)
3. Discuss biological properties of soil, plant physiology, and ecology (GE 1, 4) (LA 1, 4, 6)
4. Apply basic practices of science in food crops and technologies (GE 1, 4) (LA 1, 4, 6)
5. Design and implement garden project (GE 1, 2) (LA 1, 2, 6)

B. Student Learning Outcomes

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

1. Define and explain various agricultural concepts, terms, and methods and how it is used in the food production
2. Research, discuss and present information on sustainability and non-communicable diseases as well as its negative effect on community health
3. Examine and explain the basic soil science principles, plant structures and functions as well as basic interactions and relationships in ecological systems
4. Collect data and test the potential of various food crops and technologies
5. Design, create and manage a garden

III. Course Content

This course introduces agricultural concepts, technology, and practices.

1. Agriculture; Theories and Practice
   a. Scientific Method
   b. Terminology
   c. Tools and Technology
   d. Ecology
2. Urbanization, Poverty and Development
3. Food, Nutrition and Non-Communicable Diseases
4. Soil Science
   a. Nutrient Cycling and fertility
   b. Composting
   c. Soil-Water Potential
   d. Erosion
5. Plant Biology
   a. Nutrition, Growth, and Reproduction
6. Atoll Agriculture
   a. Ecology
   b. Agroforestry
   c. Permaculture
   d. Conservation Agriculture
   e. Do-Nothing Farming
   f. Vegetable Production
IV. **Methods of Instruction**

1. Lectures and discussions
2. Overhead/LCD and audio-visual presentations
3. Readings
4. Weekly lab activities and experiments
5. Field trips

V. **Equipment and Materials**

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

VI. **Suggested Methods of Evaluation**

1. Exams
2. Quizzes
3. Class assignments
4. Laboratory reports
5. Laboratory practicals
6. Garden project

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

Course Number: **SC 101 Introduction to Agriculture (4cr)**

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