

Northern Marianas College
CURRICULUM ACTION REQUEST

Effective Semester / Session: Fall 2018

Type of Action:

- New
- Modification
- Move to Inactive (Stop Out)
- Cancellation

Course Alpha and Number: NR 150 (Previously BI 150)

Course Title: Introduction to Natural Resources Management

Reason for initiating, modifying, or canceling:

This course guide is being modified for periodic updates.

Dr. Alfredo B. De Torres

Proposer

3-28-19

Date

Dr. Alfredo B. De Torres

Department Chair

3-28-19

Date

Adam Walsh

Language & Format Review Specialist

05.20.19

Date

Ajani Burrell

Academic Council Chair

4/5/19

Date

Charlotte Cepeda

Dean, Learning and Student Success

6/11/19

Date

Northern Marianas College
CURRICULUM ACTION REQUEST

Effective Semester / Session: Spring 2019

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- New
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- Move to Inactive (Stop Out)
- Cancellation

Course Alpha and Number: NR150 (Previously BI150)

Course Title: Introduction to Natural Resource Management

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Dean of Learning & Support Services

Date

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Course: NR150

1. Department

Natural Resource Management

2. Purpose

NR 150 is the first core course of Natural Resource Management, Associate in Science degree. Natural Resource Management is an inter-disciplinary program that emphasizes a theoretical and applied approach to agricultural, environmental, and natural resource production, assessment, classification, problem or phenomena mitigation, policy, and related conservation issues. This science course provides academic training and on-the-job experience with a student focus on utilization, conservation, and protection of our land, sea, water, and air.

3. Description

A. Required/Recommended Textbook(s) and Related Materials

Required:

Lobban, Christopher S., and Maria Schefter. *Tropical Pacific Island Environments*. Mangilao, GU: University of Guam Press, 1997.

Readability level: Grade 12

Furey, John, et. al. *Island Ecology & Resource Management*. Saipan, MP: Northern Marianas College Press, 2006.

Readability level: Grade 10

Handouts on specific topics will also be distributed.

Recommended: N/A

B. Contact Hours

1. **Lecture:** 3 per week / 45 per semester
2. **Lab:** 3 per week / 45 per semester
3. **Other:** N/A

C. Credits

1. **Number:** 4
2. **Type:** Regular degree credits

D. Catalogue Course Description

NR 150 introduces students to the basic ecological and scientific principles required to understand resource and environmental issues. Natural resources are discussed with respect to their value to humans and other species, their use and degradation, restoration, and sustainable management; three hours of

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lecture with field trips required. Prerequisite: None. English Placement Level: EN095. Math Placement Level: MA091

E. Degree or Certificate Requirements Met by Course

This course fulfills the core/program requirement in the A.S. degree program in Natural Resource Management and as a science elective for non-majors in NRM and other related degree programs.

F. Course Activities and Design

This course incorporates lectures, guest speakers, audiovisual presentations, student oral presentations, take-home and web-based assignments, laboratory exercises, field trips, periodic quizzes, tests, a class project, and a comprehensive final exam.

4. Course Prerequisite(s); Concurrent Course Enrollment

Prerequisites: N/A

Concurrent Course Enrollment: N/A

Required English/Mathematics Proficiency Level(s)

English Placement Level: EN095

Mathematics Placement Level: MA091

5. Estimated Cost of Course; Instructional Resources Needed

Cost to the Student: Tuition for a 4-credit course, cost of textbook, and instructional materials fee.

Cost to the College: Instructor's salary.

Instructional resources needed for this course include classroom and laboratory space, chalkboard/whiteboard and supplies, TV/VCR, videotaped programs, digital camera, video flex camera attachment for microscopes, stereo and compound microscopes, microscope slides and cover slips, multimedia projector, and basic laboratory/field supplies.

6. Method of Evaluation

Student learning will be evaluated on the basis of class participation, oral presentations, assignments, laboratory/field trip reports, quizzes, tests, a class project, and a comprehensive final exam. NMC's grading and attendance policies will be followed.

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7. Course Outline

This is a topical outline and does not necessarily indicate the sequence in which the material will be presented.

- 1.0 Introduction to Resource Management
 - 1.1 Historical perspective
 - 1.2 Information sources
 - 1.3 Science and reasoning

- 2.0 Conservation Concepts
 - 2.1 Cultural history and patterns of human settlement
 - 2.2 Resource use and development
 - 2.3 Ancient wisdom/modern rediscovery

- 3.0 Resource Management Statistics
 - 3.1 Field collection of data
 - 3.2 Data analysis
 - 3.3 Results reporting

- 4.0 Geographic Information Systems
 - 4.1 Scientific field equipment
 - 4.2 Monitoring and mapping
 - 4.3 Record keeping

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8. Instructional Goals

The course will introduce students to:

- 1.0 The science of natural resource management;
- 2.0 The influence of human culture and settlement on the land, the water, the air, and the sea;
- 3.0 The basic concepts of environmental conservation; and
- 4.0 The methodology of field monitoring, data collection, mapping, data analysis, record keeping, and reporting.

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9. Student Learning Outcomes

Upon successful completion of this course, students will be able to:

- 1.0 Explain the importance of the science of natural resource management;
- 2.0 Discuss the influence of human culture and settlement on the land, the water, the air, and the sea;
- 3.0 Identify and integrate the basic concepts of environmental conservation; and
- 4.0 Successfully apply the methodology of field monitoring, data collection, mapping, data analysis, record keeping, and reporting.

10. Assessment Measures of Student Learning Outcomes

Assessment of student learning may include, but not be limited to, the following:

- 1.0 Class Participation;
- 2.0 Oral Presentations;
- 3.0 Assignments;
- 4.0 Laboratory Exercises;
- 5.0 Field Trip Reports;
- 6.0 Quizzes;
- 7.0 Tests;
- 8.0 Class Project; and
- 9.0 Comprehensive Final Exam