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
Date: 3-28-19

Department Chair
Date: 3-28-19

Language & Format Review Specialist
Date: 5-20-19

Academic Council Chair
Date: 4-19-19

Dean, Learning and Student Success
Date: 6-11-19
Effective Semester / Session: Spring 2019

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- New
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Course Alpha and Number: NR150 (Previously BI150)

Course Title: Introduction to Natural Resource Management

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Dr. Alfredo B. De Torres
Proposer

Dr. Alfredo B. De Torres
Department Chair

Adam Walsh
Language & Format Review Specialist

Ajani Burrell
Academic Council Chair

Charlotte Cepeda
Dean of Learning & Support Services
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:
      Readability level: Grade 12
      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
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.
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
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.
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