



Syllabus: **ANR190N: Wildlife Conservation**

Course Information

Course Prefix/Number: ANR 190N
Semester: Spring 2017
Class Days/Times: TR, 9:00-11:45 AM

Credit Hours: 4
Course Title: Wildlife Conservation
Room: IWK5

Instructor Information:

Name: Adrian Quijada Ph.D.

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Office hours: Only by appointment

Course Description:

An introductory course studying the ecology, conservation and management of wildlife populations. Students will learn a variety of tools to apply ecological knowledge balancing the needs of animals and plants with those of people. Topics will cover history, philosophy, inventory, planning, management, and Tohono O'odham wildlife concepts.

Course Objectives:

During this course students will be able to:

1. Focus on the effects of current and historical decisions on wildlife populations and the local and global environment.
2. Discuss legal and cultural laws and regulations that have been enacted to protect wildlife resources.
3. Learn and use one surveying method for managing wildlife resources.
4. Demonstrate knowledge of Tohono O'odham cultural/wildlife views along with those of Western science wildlife conservation methods.
5. Demonstrate applications of ecological principles to the management of wildlife resources.

Student Learning Outcomes (SLOs) : (Three to Six)

Course Specific Outcomes	Assessment/Measures
1. Evaluate the impacts of our decisions on wildlife populations and the local and global environment.	Written Essay
2. Discuss laws and regulations that have been enacted to protect wildlife resources.	Class Discussion and Forum
3. Utilize practical management tools and techniques to manage wildlife resources.	Lab Project
4. Demonstrate knowledge of Tohono O'odham cultural/wildlife views along with those of Western science wildlife conservation methods.	Reflection Paper
5. Demonstrate applications of ecological principles to the management of wildlife resources.	Final Class Project

Course Structure:

Wildlife Conservation is the science that approaches the current state of and threats to biodiversity on Earth, for understanding the reasons that place some populations at greater risk of extinction than others, and for providing solutions for minimizing the loss and the management of biodiversity, including policy and management. This course aims to explore each of these areas in order to achieve a clear understanding of their importance within the field of conservation biology. We will cover the basic foundations in each area and investigate how those foundations have been expanded upon in order to address concerns specific to conservation issues. We will read selected papers from the primary scientific literature and will undertake the analysis of data as might be presented to a practicing conservation biologist. The overall goal of this course is to provide both broad coverage of conservation biology and an in-depth understanding of the issues.

Texts and Materials: *(list text(s), and materials students will need)*

Primack, R. B. 2014. Essentials of Conservation Biology. Sinauer, Sunderland, Massachusetts, sixth Edition. ISBN-13: 978-1605352893; ISBN-10: 1605352896

Evaluation and Grading & Assignments:

Evaluation:	Points:	Percent of Total Points:
Exams & Quizzes	380 pts	38%
Labs/Field Trips	312 pts	31.2%
Viewpoint Paper	106 pts	10.6%
Discussions/Reflective Writing/Assignments	17 pts	1.7%
In-class participation and attendance	185 pts	18.5%
TOTAL	1000	100%

Himdag Cultural Component: *(include details on how this course will be integrated into the Himdag)*

This course will provide a basic knowledge and understanding of wildlife concepts using Western scientific methods while integrating traditional Tohono O'odham natural resource values and practices. This base knowledge will enable the student to recognize the inter-relationships between the Nation and the local and global natural resource communities and to enhance those relationships or develop new ones that will benefit all communities.

Policies and expectations

Course Policies Requirements:

(1) Attend class regularly; (2) Complete in-class and out-of-class assignments and submit to the instructor; (3) Take all exams (4) Complete all class projects & presentations.

Attendance:

You are expected to arrive to class on time and actively participate each class period. Quizzes and exams are given out at the beginning of class time. Field trips and class activities begin at the start of class and may be missed if you do not arrive to class on time. Because exams, labwork and/or other assignments potentially occur every class period, points potentially will be lost each class period missed. If you miss all or a portion of a class, then you are solely responsible for obtaining missed class material from fellow students. Complete attendance is mandatory during student project presentations; otherwise presentation points will be forfeited. Four consecutive, unexcused absences may result in withdrawal. You may request to be excused from class for religious observances and practices, for illness, for travel or for personal or family emergency. If you will be absent or have been absent, please notify the instructor as soon as possible.

Make-up policy:

Missed exams can be made up within two days of the exam date. Late assignments that can be made up will be accepted but will be penalized 25%. Laboratories cannot be made up. At the instructor's discretion, extra credit opportunities and optional activities may be provided.

Academic Integrity:

Violations of scholastic ethics are considered serious offenses by Tohono O'odham Community College, the Student Services Department, and by your instructor. Students may consult the TOCC

Student Handbook sections on student code of conduct, on scholastic ethics and on the grade appeal procedure. Copies are available at Tohono O'odham Community College.

All work done for this class must be your own. While you may discuss assignments with other class members, the final written project must clearly be your own. You may use work from books and other materials if it is properly cited. Copying from a book without proper reference or from a person under any circumstances will result in an "F" for the assignment, and at the instructor's discretion, possibly an "F" for the course.

ADA Compliance:

Tohono O'odham Community College strives to comply with the provisions of the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. If you have a learning problem, physical disability, or medical illness that requires you to have any special arrangements, please inform your instructor at the beginning of the semester so your academic performance will not suffer because of the disability or handicap.

Classroom Behavior:

Because of insurance limitations, non-registered visitors are not allowed at class sessions or on field trips. Possession of drugs, alcohol or firearms on college property is illegal. Food and beverages are allowed in classrooms. Pets, telephones, pagers and other electronic devices that distract students are not allowed in classrooms. Students creating disturbances that interfere with the conduct of the class or the learning of others will be asked to leave.

Course Feedback:

All assignments, written papers and quizzes will be graded and returned to the students one week after the assignment is due. E-mail and phone messages will be returned within two days. A student or the instructor may request a student conference at any time during the semester.

Instructor Withdrawals:

Students who have missed four consecutive classes, not submitted any assignments nor taken any quizzes by the 20th day census report, due on June 22nd, 2014 are assumed NOT to be participating in the class and will be withdrawn. Students may withdraw from class at any time during the first 2/3 of the summer period without instructor permission and without incurring any grade penalty. Please be sure to withdraw yourself by in time if you do not expect to complete the class, otherwise you may receive an "F" grade.

Incomplete (I) grade:

"I" grades are not awarded automatically. The student must request an "I" from the instructor who will judge the student's ability to complete the course on his or her own. Generally the student must have completed over 80% of the course requirements with at least a "C" grade. An "I" requires a written contract between the student and the instructor listing work to be completed as well as how and when the work will be done. If the work is not completed within the contract period, the "I" grade automatically reverts to an "F." "I" grades will not be re-evaluated during the final two weeks of the semester when class activities are normally at their most intense.

Special Withdrawal (Y) grade:

The "Y" grade is an administrative withdrawal given at the instructor's option when no other grade is deemed appropriate. Your instructor must file a form stating the specific rationale for awarding this grade. "Y" grades are discouraged since they often affect students negatively. Your instructor will not award a "Y" grade without a strong reason.

Final Grades:

Students will receive a grade transcript from the college mailed to the address given with registration materials at the end of the summer period when all grades have been recorded.

SPECIAL NOTE TO STUDENT: For privacy and security reasons, instructors are advised NOT to give grades over the telephone. Grades will only be emailed with written permission from the student.

Your instructor will make every attempt to follow the above procedures and schedules, but they may be changed in the event of extenuating circumstances.

Students submitting assignments through the mail or by email are advised to make copies for their own protection.

If you move during the semester, please file a change of address form with the Student Services Office, and inform your instructor.

Course Outline:

I. MAJOR ISSUES DEFINING WILDLIFE CONSERVATION (Jan Week 3,4)

1. What Is Wildlife Conservation?
 2. What Is Biological Diversity?
 3. Where Is the World's Biological Diversity Found?
- Workshop: The American Psychological Association (APA) style.

II. VALUING BIODIVERSITY (Feb Weeks 1,2)

4. Ecological Economics
5. Indirect Use Value of Wildlife
6. Ethical Values

III. THREATS TO BIODIVERSITY (Feb Weeks 3,4)

7. Extinction
8. Vulnerability to Extinction
9. Habitat Destruction, Fragmentation, Degradation, and Global Climate Change
10. Overexploitation, Invasive Species, and Disease

IV. CONSERVATION AT THE POPULATION AND SPECIES LEVELS (March Weeks 1,2,3)

11. Problems of Small Populations
12. Applied Population Biology
13. Establishing New Populations
14. Ex Situ Conservation Strategies

V. PRACTICAL APPLICATIONS (March Week 4, April Weeks 1, 2)

15. Establishing Protected Areas
16. Designing Networks of Protected Areas
17. Managing Protected Areas
18. Conservation Outside Protected Areas
19. Restoration Ecology

VI. CONSERVATION AND HUMAN SOCIETIES (April Weeks 3,4)

20. Conservation and Sustainable Development at the Local and National Levels
21. An International Approach to Conservation and Sustainable Development
22. An Agenda for the Future

DISCLAIMER: This syllabus is designed to evolve and change throughout the semester based on class progress and interests. You will be notified of any changes as they occur.

BIO 105 SPRING 2017--Grade Tracking Form	Points to be Earned	Points Earned
Quiz Conservation Biology Concepts	10	
EXAM 1-Value and Threats to Biodiversity	100	
EXAM 2-Conservation of Populations and Species	100	
EXAM 3—Protected areas, Restoration and Sustainability	100	
Reflection: How Much Value for Biodiversity?	12	
Reflection: Human Extinction Vortex	12	
Reflection: The Fate of the Jaguar in the US	12	
Reflection: Wind & the Rain Story	12	
Reflection: Wildlife Services to Human Well Being	12	
Reflection: Tohono O’odham Nation’s Wildlife	12	
Lab: Biodiversity/Scientific Method	10	
Lab: Methods for Wildlife Study and Monitoring	10	
Lab: Wildlife Conservation Project: Proposal	15	
Lab: Wildlife Conservation Project: Field Work	16	
Lab: Wildlife Conservation Project: Analysis/Prep	16	
Lab: Wildlife Conservation Project: Presentation	16	
Assnmt: Endangered Species Act	10	
Field Trip 1—Biodiversity	80	
Field Trip 1--Biodiversity Reflection	10	
Field Trip 2—Management and Conservation	80	
Field Trip 2—Management and Conserv. Reflection	10	
Viewpoint Question	10	
Viewpoint Paper	50	
Viewpoint Presentation	20	
Final Class Presentation	30	
Wildlife Video: BBC Nature - Video collection	10	
Wildlife Video: BBC Nature - Video collection	10	
Wildlife Video: BBC Nature - Video collection	10	
Wildlife Video: BBC Nature - Video collection	10	
Wildlife Video: BBC Nature - Video collection	10	
Attendance & in class participation	185	
Total Points Earned	1000	