Syllabus:
WILD 180 - Careers in Wildlife Biology
Fall 2019 – 2 Credits

Instructors:
Dr. Chad Bishop, Forestry 312, Phone: 406-243-4374, Email: chad.bishop@umontana.edu
Office Hours are Wed 1:30 PM – 3:30 PM, or by appointment

Brandon Kittson (TA), Natural Sciences 212, Email: brandon.kittson@umontana.edu
Office Hours are Thurs 9:00 – 11:00 AM

Learning Assistants (LAs):
Jonathan Karlen, Email: jonathan.karlen@umconnect.umt.edu
Samantha McFarland, Email: samantha.mcfarland@umconnect.umt.edu
Caleb Smith, Email: caleb1.smith@umconnect.umt.edu
Sarah Sriraman, Email: sarah.sriraman@umconnect.umt.edu
Michael Sleeting, Email: michael.sleeting@umconnect.umt.edu

Lecture times and location:
10:00 AM – 10:50 AM – Tuesday (T) and Thursday (R) – Education Building Auditorium

Course Objectives:
1. Learn about the wildlife biology profession and associated career opportunities.
2. Develop a basic understanding of:
   a. the historical origins and development of wildlife management and conservation in North America and how it ties to other natural resource professions;
   b. fundamental concepts underlying wildlife biology, management, and conservation;
   c. techniques used in wildlife research and management; and
   d. future challenges and opportunities in wildlife and natural resource conservation.

Course Website:
MOODLE UM Online. When you log-in to Moodle, you will be able to find and access our course website (WILD 180 – Careers in Wildlife Biology). There is an online Moodle 101 course to assist you in learning the basics of navigating and using Moodle.

Text Book/Readings:
• Required
  o Textbook – A Sand County Almanac and Sketches Here and There by Aldo Leopold.
    ▪ You can purchase book through the bookstore or online
  o Readings as assigned on the course Moodle website during the semester.

• Recommended but not required for the class
  o State Wildlife Management and Conservation by Thomas J. Ryder (Editor)
  o Becoming a Wildlife Professional by Scott E. Henke and Paul R. Krausman (Editors)
Use of TOP HAT Web-based Interactive Learning Resource:

All students are required to purchase a subscription to TOP HAT for this course. The total cost of the subscription for one semester is $30. Top Hat is a web-based resource to facilitate interaction during lecture. We will also use Top Hat to track attendance and class participation. You can link to this particular course in Top Hat using the following course code: 742526. To use Top Hat during class, you will need a smart phone, tablet, laptop or similar device so you can pull up the website during class. If you do not have one of these devices, please contact one of the instructors.

Lecture Schedule and Classroom Learning Environment:

A lecture will be delivered each class period by the professor, teaching assistant, or a guest lecturer. Lectures will not be recorded. Lectures will be based on a Powerpoint presentation, which will be made available to students after the lecture via the course website and TopHat. On rare occasion, a guest lecturer may opt not to provide her/his Powerpoint to students, which will be made clear to students at the beginning of the lecture. Students may be tested on all information contained within Powerpoint presentations and any other information presented during lectures. Class periods will also include small group discussions facilitated by the Teaching Assistant and Learning Assistants. The purpose of these discussions is to enhance classroom learning by providing students the opportunity to engage with their peers in dialogue on the topics covered in class. To allow time for quality classroom discussions, not all material contained within Powerpoint presentations will be formally presented during class time. Thus, students will need to study all material contained within Powerpoint presentations for each exam, regardless of whether the given material was specifically presented during class.

The tentative schedule for the course is provided below. Topics are subject to change.

27 August Course Overview, Introductory Lecture

29 August Historical Development of Wildlife Management and Conservation in North America

3 September Establishment of the Wildlife Management Profession and the Environmental Movement in North America

5 September A Sand County Almanac and Sketches Here and There – Part I
10 September A Sand County Almanac and Sketches Here and There – Part II

12 September Present-day Wildlife and Natural Resource Issues

17 September Careers in Wildlife Biology

19 September Connecting Careers in Wildlife with other Natural Resource Professions

24 September Tie Up Loose Ends and Review for Exam 1
   Assignment 1 Due

26 September Exam 1

1 October  Hilary Cooley – U.S. Fish and Wildlife Service Grizzly Bear Recovery Coordinator

3 October  Tom Bansak – Flathead Lake Biological Station: Science, Research and Summer “Hands-On” Field Course Opportunities

8 October  Conserving and Managing Wildlife and Natural Resources – Who does what?

10 October  Roles and Structures of State and Federal Wildlife Agencies and NGO’s

15 October  Capture & Monitoring Techniques used to Study and Manage Wildlife

17 October  Key Concepts for Managing and Conserving Wildlife Populations
   • Population Rate of Change, Carrying Capacity, Density Dependence, Limitation

22 October  Applying Key Concepts: Management of Harvested Species

24 October  Applying Key Concepts: Conservation of At-Risk Species

29 October  Tie Up Loose Ends and Review for Exam 2
   Assignment 2 Due

31 October  Exam 2

5 November  Dr. Sara Rinfret, UM, Associate Professor and Chair, Dept of Public Administration and Policy, Climate Policy: will it ever happen in the US?

7 November  ESA Overview and Contemporary Issues

12 November  Jim Lyons, Yale School of Forestry and Environmental Studies, Former US Dept of
Agriculture Under Secretary for Natural Resources and Environment (under President Clinton), and former US Dept of Interior Deputy Assistant Secretary (under President Obama)

ESSAYS DUE!

14 November  Walking the Fine Line: Science vs Advocacy

19 November  Guest Lecture - TBD

21 November  Megan Parker – Working Dogs for Conservation

26 November  Future Conservation Challenges

28 November  Thanksgiving – NO CLASS!

3 December  Motivations to Pursue a Career in Wildlife

Assignment 3 Due

5 December  Course Wrap-up, Review for Final Exam, and Course Evaluations

12 December  FINAL EXAM – 10:10 AM – 12:10 PM

Exams: Two midterm exams (September 26 and October 31) and a Final exam (December 12).

The exams will be multiple choice and true-false. Students will take the exams in class using TopHat. Students unable to access the exam through TopHat will be given the option of taking the exam using a traditional ScanTron form and number 2 led pencil. Exams will focus heavily on course material presented in lectures and associated Powerpoint presentations, but may also include material associated with assignments and assigned readings. Exam 1 (Sept 26) will cover course material from the beginning of the course through September 24 (i.e., all material covered in the class thus far). Exam 2 (Oct 31) will cover course material from October 1 through October 29 (i.e., all material covered in the class after the first exam). The Final exam (Dec 12) will be cumulative, covering course material presented throughout the entire course, but it will be weighted toward the material covered after October 31 (i.e., after the 2nd exam). Specifically, one-half of the final exam will focus on material covered from the beginning of the course through October 29, and the other half of the final exam will focus on material covered during November 5 through December 5.

Time allotted for the first and second exams will be the same as the regular course time, 10:00 AM – 10:50 AM, and the exams will be given in the same room (Education Building Auditorium). Students will have up to 2 hours to take the final exam (10:10 AM – 12:10 PM), which will also be given in the same room (Education Building Auditorium). Students arriving at a scheduled exam (midterms and final) AFTER the first person to finish the exam has left the room will not be allowed to take the exam and will be assigned a ZERO. So don’t oversleep or be late for any other reason!
Make-up exams will be scheduled only when the professor is given documentation of a valid excused absence (see “Attendance Policy” below) prior to the scheduled exam time.

Assignments:

There will be three assignments made throughout the course to enhance your learning of the course material. Assignments will be emailed to students, announced in class, and simultaneously posted on Moodle. You will be expected to complete the assignments outside of class and submit them through Moodle on or before the assigned due date. In the event you encounter a problem uploading your assignment to Moodle, you may email the assignment to the instructors. Assignments turned in within 1 week after the due date will be deducted 50%. Assignments will not be accepted >1 week past the due date. Each assignment is worth 3.33% of your grade in the course, or collectively, the assignments are worth 10% of your overall grade in the course. The three assignment descriptions and due dates are:
Assignment 1: Historic events and people in wildlife management/conservation – Due September 24
Assignment 2: Temporary and permanent jobs in wildlife biology – Due October 29
Assignment 3: Key concepts: carrying capacity – Due December 3

Essay:

All students are required to read A Sand County Almanac. As you read it, think about your personal connection to wildlife and natural resources and what brought you here to UM to pursue your selected major. You are required to write a 2.5–3 page essay on this connection. It can be about a single incident in your life or it can be a summary of life experiences that drew you to this point in time. The essay can and should be personal. It’s our personal connections and foundations that ultimately make a career in wildlife biology or natural resource conservation so rewarding. In composing your essay, you must make reference to at least 2 passages from A Sand County Almanac that resonate with you and tie to your connection. You are encouraged to seek out the services of the UM Writing Center for assistance in writing your essay (UM Writing Center).
Your essay is due no later than November 12, although you can turn it in early. You should turn in your essay via Moodle.

Essay Grading: The essay is worth 10% of your overall grade in the course. Your essay will be graded according to how well it adheres to the requirements outlined above: 1) 2.5-3 pages in length, 2) references at least 2 passages from A Sand County Almanac, and 3) describes a meaningful personal connection to wildlife or natural resources. Essays will be further graded based on grammar, punctuation, spelling, and sentence structure. Students who complete a 2.5-3 page essay as described above with proper grammar, punctuation, sentence structure, and spelling will receive an A (≥90 %). Grades will be deducted accordingly for incorrect grammar and punctuation, misspelled words, poor sentence structure, failure to reference at least 2 passages from A Sand County Almanac, failure to meet
2.5-3 page length requirement, and/or a failure to describe a personal connection to wildlife or natural resources.

**Course Grade:**
*This class is offered for traditional letter grade only (A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F).*
*Your grade will be determined based on the following weighting of exams, assignments, and the essay:

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<thead>
<tr>
<th>Description</th>
<th>%</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>20%</td>
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<tr>
<td>Exam 2</td>
<td>20%</td>
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<tr>
<td>Assignments</td>
<td>10%</td>
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<tr>
<td>Essay</td>
<td>10%</td>
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<tr>
<td>Class participation</td>
<td>5%</td>
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<tr>
<td>Final</td>
<td>35%</td>
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<tr>
<td><strong>Overall Grade</strong></td>
<td><strong>100%</strong></td>
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**General Course Policies**

**Attendance Policy:**
Students are expected to attend all class meetings. However, attendance is not mandatory; your desire to learn and do well in the course will dictate your presence. Also note above that 5% of your grade will be tied to class attendance. Students are individually responsible for all information presented in lectures, guest lectures, assigned readings, on the course Moodle website, and class assignments. It is especially important that you are present for exams. In the case of medical or other emergencies (e.g., legitimate, planned absences), I will work with the student individually in terms of rescheduling an exam time. Formal documentation will be required for legitimate emergencies that require a student to miss an exam.

**Academic Dishonesty:**
All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the [Student Conduct Code](#). Plagiarism qualifies as academic misconduct. Students often misunderstand plagiarism, particularly when reporting information from the web or other digital sources. Anytime you extract information from another source for an assignment or paper, it is critical that you cite your source. If you report text verbatim, you must place the text in quotes and cite the source accordingly. We are less concerned with the format of your citations at this point than the fact that you attempt to appropriately reference the source.
Students with Disabilities:
The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Disability Services for Students (DSS). If you have a disability that may adversely affect your academic performance, and you have not already registered with DSS, please contact DSS in Lommason 154 or call them at 406.243.2243. We will work with you and DSS to provide an appropriate modification.

Dropping/Adding:
Drop/Add dates are posted at Office of Registrar: Calendar.

Important Dates Regarding Opportunities to Drop a Course during Autumn 2019 Semester:

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<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Date Range</th>
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<tbody>
<tr>
<td>To 15th instructional day</td>
<td>Students can drop classes on Cyberbear with refund</td>
<td>August 26 to September 16</td>
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<tr>
<td>16th to 45th instructional day</td>
<td>Drop requires form with instructor and advisor signatures, and there is a $10 fee; student will receive a ‘W’ on transcript and no refund.</td>
<td>September 17 to October 28</td>
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<tr>
<td>46th to last instructional day</td>
<td>Students are only allowed to drop a class under very limited and unusual circumstances. Concern over course grade is not an acceptable reason. Requests to drop must be signed by the instructor, advisor, and Dean and a $10 fee applies. A WP or WF will appear on the student’s transcript.</td>
<td>October 29 to December 6</td>
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