INTRODUCTION TO SUBANTARCTIC BIOCULTURAL CONSERVATION
Fall 2011

Core Professors:
Dr. Jaime E. Jiménez, wildlife ecologist, UNT
Dr. Ricardo Rozzi, conservation philosopher, UNT

Collaborating & Invited Lecturers:
Dr. James Kennedy, biologist, UNT https://faculty.unt.edu/editprofile.php?pid=1930&onlyview=1
Dr. J. Baird Callicott, philosopher, UNT http://www.phil.unt.edu/people/faculty/j-baird-callicott
Dr. Jorge Chávez, Forestry Engineer, Director of Ecotourism graduate program, Universidad La Molina, Lima, Perú
Dr. Christopher Elphick, ornithologist, University of Connecticut http://hydrodictyon.eeb.uconn.edu/people/birdlab/elphick.html
Dr. Bernard Goffinet, bryologist, University of Connecticut http://www.eeb.uconn.edu/people/goffinet/
Dr. Roy May, environmental theologian and philosopher, Latin American Biblic University of Costa Rica
Dr. Kathryn E. Sieving, ornithologist, Univ. of Florida http://www.wec.ufl.edu/faculty/sievingk/

Course Catalogue Information (sections 001 & 031):
PHIL 4053, 5780
BIOL 4053, 5053

Class Schedule:
Fall semester; Thursdays, 6:00 – 8:50 PM (Central Daylight/Standard Time)
Gateway 049

Office Hours:
J. Jiménez: Tue & Thu 3:00-4:30 pm (LSA 246E) or by appointment
(Phone: 940-369-5077; email: Jaime.Jimenez@unt.edu)
R. Rozzi: Tue & Thu 3:30-5:00 pm (EESAT 310P) or by appointment
(Phone: 940-565-2266; email: Ricardo.Rozzi@unt.edu)

Academic Dishonesty Policy:
Students are responsible for reading, understanding, and knowing UNT’s Academic Dishonesty Policy that can be found at: http://www.vpaa.unt.edu/academic_integrity.htm. Academic dishonesty in this class is unacceptable and will not be tolerated in any form.

Disability Accommodation:
The Departments of Biological Sciences and Philosophy and Religion Studies, in cooperation with the Office of Disability Accommodation, comply with the Americans with disabilities in making reasonable accommodations for qualified students with disabilities. The University of North Texas is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public
Law 92-112 – The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act (ADA), pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens. Please present your written accommodation request before the 12th class day.

Drop/Withdrawal Information:
Drop/Withdrawal Information and other important Academic Dates can be found at www.essc.unt.edu/registrar/schedule/scheduleclass.html

INTRODUCTION TO SUB-ANTARCTIC BIOCULTURAL CONSERVATION

Course Description:
The course will provide students with an introduction to sub-Antarctic biological and cultural diversity, as well as to the approach of the Sub-Antarctic Biocultural Conservation Program at UNT. Students will gain an overview of the flora, fauna, geography, climate, and ethnography of southern South America. They will also gain a conceptual framework to integrate environmental philosophy and ecological sciences, and their integration into practical and theoretical aspects of biocultural conservation, including education and ecotourism.

We all bring different skills and mindsets to this course and will work as a group to broaden and integrate our approaches to biocultural conservation. This semester-long seminar-style course will have an emphasis on ethno-ornithology and ecotourism, as a way to implement biocultural conservation. The course is part of a broader International Research Experience for Students (IRES) program that includes a field experience, financed by a National Science Foundation (NSF), and a study-abroad field course, entitled Tracing Darwin’s Path (TDP). Although this course is a recommended pre-requisite for the TDP field course, participation in the field components associated with the semester-long seminar course is not a requirement.

We will use various interactive features during the course, including Blackboard, videoconferences and live streaming. Course materials will be made available online through Blackboard and www.chile.unt.edu. Students are required to check Blackboard regularly for updates to the syllabus, announcements and access to course materials.

Course Goals:
Through readings, films, and seminars students will develop:
- A basic understanding of the geography, history, culture, and ecology of the sub-Antarctic ecoregion of southern South America
- A comprehension of under-appreciated biodiversity (bryophytes, lichens and freshwater invertebrates), and traditional ecological knowledge
- A distinctive interdisciplinary approach to biocultural conservation that integrates environmental philosophy and ecological sciences
- Familiarity with both biological and cultural diversity
- We will focus on some key figures on biocultural diversity (e.g., Darrel Possey, Luisa Maffi), South American environmental philosophy (e.g., Leonardo Boff, Chico Mendez, Dorothy Stang), comparative environmental philosophy (e.g., Baird Callicott), environmental philosophy and education (e.g., Eugene Hargrove, Peter Feinsinger), narrative philosophy and ethics (e.g., Alasdair MacIntyre), and this semester also on Neotropical ornithology (e.g., Francois
Vuilleumier, Christopher Elphick, Kathryn Sieving), and the topics of biotic homogenization and flagship species.

Readings:

Required purchased texts are:

- Additional readings will be made available in PDF from the course Blackboard platform and are subject to change up to one week in advance if necessary.

Course Evaluation:

1) **Group Presentations (15%)**

Students groups of 4-5 will give 15 minute presentations on Oct. 27th based on a research topic chosen at the beginning of the semester (see Appendix with list of Research Topics Fall 2011). Each group is required to submit, by email, a professional PPT presentation on Oct. 13th, which will be returned with comments prior to the presentation. Groups are expected to incorporate and/or address the comments, questions, and indications given as feedback into the first draft PPT for their presentation on Oct. 27th.

**On the day of the presentation, each group will also turn-in a short essay**, max 6 pages, double spaced, font size 12, Times New Roman, 1-inch margins (not including bibliography – 1 to 3 additional pages).

**To receive credit, essays must include:** 1) a brief introduction; 2) main questions or thesis researched in the presentation; 3) results and thesis proposed and 4) broader implications of the findings and statements.

The essays will be distributed to the class as supplementary reading materials. On Nov. 3rd groups will receive feedback from their classmates and professors of the course about their drafts. Addressing the questions and suggestions provided on the drafts, each group will prepare a final paper, max 10 pages, double spaced, font size 12, Times New Roman, 1-inch margins (not including bibliography – 1 to 3 additional pages) for Dec. 1st; **no exceptions will be made for this deadline**.

2) **Attendance and Participation (10%)**

Attendance is mandatory. Students are responsible to prepare ahead of time, attend all lectures and discussion sessions, ask questions, and express themselves creatively and concisely in their work. Ways of earning points for class participation include being prepared to contribute positively to class discussion of the assigned readings. Contributing positively requires having read, and as thoroughly as possible understood the assigned readings, and at least being able to raise important questions if not provide definitive answers. Undergraduate students are responsible for all required readings, and graduate students are responsible for required and supplementary readings. Authorized absences that will be considered on a case-by-case basis include: religious holidays, call to active military duty and a certified sickness by a medical professional. Unauthorized absences will affect participation grade.

3) **Preparation Quizzes (25%)**
At the beginning of each class, a short quiz will be taken regarding the material contained in the required (all students) and supplementary (only graduate) readings for that week.

**4) Tests (25%)**
Two tests will be taken during the semester worth 10% and 15% of the grade, respectively. Graduate students will be given an additional essay question on each exam.

**5) Final Essay (25%)**
Together with the course coordinators, groups of 4-5 students will select a topic of relevance to sub-Antarctic biocultural conservation and elaborate a “review-type” article, using an extensive bibliographic search. On Oct 27th students will present a PowerPoint presentation (see 1 above) and turn in the first draft. On Dec 1st the revised draft is due. Also, on Dec. 1st graduate students will require presenting a seminar on a flagship species.

The final grade earned will correspond to the following scores, weighted by each activity:

- A = 89.5 – 100
- B = 79.5 – 89.4
- C = 69.5 – 79.4
- D = 59.5 – 69.4
- F = 59.4 and below

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**Course 2011 Program**

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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Readings / Assignments</th>
<th>Lecturer</th>
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<tr>
<td></td>
<td><strong>Introduction to the Bio-Cultural Conservation Course</strong></td>
<td></td>
<td>J. Jiménez J. Kennedy</td>
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<td>1 September</td>
<td>Biocultural Conservation &amp; Liberation Theology in Brazil</td>
<td>Documentary: <em>Interview with Leonardo Boff by R. Rozzi</em> Gare 1998</td>
<td>R. May R. Rozzi</td>
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<td>• Brief review of Gare’ article by a graduate student</td>
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<td>• Boff’s eco-theology</td>
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<td>• Roy May’s environmental ethics &amp; Dorothy Stang, Chico Mendez</td>
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<td></td>
<td>&amp; Leonardo Boff</td>
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<td></td>
<td>The Magellanic Sub-Antarctic Ecoregion</td>
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<td>Supplementary:</td>
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<td>Date</td>
<td>Unit/Activity</td>
<td>Reading/Content</td>
<td>Author/Note</td>
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<td>15 September</td>
<td><strong>Unit I: Characterization of the Magellanic Sub-Antarctic Ecoregion &amp; Biocultural Diversity</strong>&lt;br&gt;• Magellanic Sub-Antarctic Avifauna&lt;br&gt;• Film The Life of Birds</td>
<td>Magellanic Woodpecker (Lana), Yahgan story. <em>Multi-Ethnic Bird Guide</em>. Pp. 49-51</td>
<td>J. Jiménez</td>
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<td>Vuilleumier 1985</td>
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<td>Film: <em>The Life of Birds</em> by D. Attenborough.</td>
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<td>6 October</td>
<td><strong>Mid-Term Exam Unit I</strong>&lt;br&gt;Comparative environmental philosophy by Baird Callicott</td>
<td>Callicott’s Earth’s Insights Introduction (Chapter 1) &amp; South American eco-eroticism (Chapter 7)</td>
<td>B. Callicott&lt;br&gt;R. Rozzi</td>
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<td>13 October</td>
<td><strong>Unit II: Introduction to Sub-Antarctic Conservation, Ornithology, Education, and Ecotourism</strong>&lt;br&gt;• Sieving’s perspectives on conservation and philosophy of science&lt;br&gt;• Conservation and Ornithological studies in southern South America</td>
<td>Willson et al. 1994&lt;br&gt;Sieving et al. 2000&lt;br&gt;Sieving &amp; Silva-Rodríguez 2011</td>
<td>K. Sieving&lt;br&gt;J. Jiménez</td>
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<td>20 October</td>
<td><strong>Unit II: Introduction to Sub-Antarctic Conservation, Ornithology, Education, and Ecotourism</strong></td>
<td>Film: <em>Convivencia</em></td>
<td>J. Kennedy</td>
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<td>Date</td>
<td>Topic</td>
<td>References</td>
<td>Presenter(s)</td>
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| 27 October | Unit II: Introduction to Sub-Antarctic Conservation, Ornithology, Education, and Ecotourism  
Undergraduate Group presentations | Moorman et al. 2006  
R. Rozzi |
| 3 November | Unit II: Introduction to Sub-Antarctic Conservation, Ornithology, Education, and Ecotourism  
Ippi et al. 2009  
Elphick et al. 2011 | C. Elphick  
J. Jiménez |
| 10 November| Unit II: Introduction to Sub-Antarctic Conservation, Ornithology, Education, and Ecotourism  
Sub-Antarctic Ecotourism | Goffinet et al. 2012. Chapters 1 & 2  
Film: Return to the Den | J. Chávez  
R. Rozzi |
| 17 November| Unit II: Introduction to Sub-Antarctic Conservation, Ornithology, Education, and Ecotourism  
Sub-Antarctic Bryology in “The Miniature Forests of Cape Horn:” Science, education and conservation | Rozzi et al. 2008b  
Goffinet et al. 2012. Chapters 3 & 4 | B. Goffinet  
R. Rozzi |
| 24 November| Thanksgiving                                                           |                                                                            |---------------|
| 1 December | Unit II: Introduction to Sub-Antarctic Conservation, Ornithology, Education, and Ecotourism.  
R. Rozzi  
J. Kennedy |
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<th>Date</th>
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<th>Authors</th>
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<td>8 December</td>
<td>Final Exam</td>
<td>J. Jiménez, J. Kennedy</td>
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*#* indicates videoconference between UNT and University of Florida
@ indicates videoconference between UNT and University of Connecticut
& indicates videoconference between UNT and Universidad Agraria La Molina, Peru

### READINGS REFERENCES


**FILMS REFERENCES**


**The Life of Birds** by D. Attenborough. BBC video (3 DVD disks)


**Convivencia.** 2009. Directed by Fritz Dent. Sub-Antarctic Biocultural Conservation Program UNT & Universidad de Magallanes.