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MC/FW 481 – Global Issues in Fisheries and Wildlife, Spring Semester 2006

Scope of the Course:

MC/FW 481 investigates the influence of globalization on aquatic and terrestrial natural resources. The course begins by providing a general overview of how globalization has facilitated the process by which countries are becoming increasingly interconnected as communication and transportation technologies are rapidly evolving. These technological advancements are facilitating the increasingly rapid exchange of ideas and products throughout the world. The course examines how these advancements and exchanges are affecting, both positively and negatively, natural systems. These effects result in fisheries and wildlife experts being increasingly faced with global issues affecting natural resources, and based on the current trend of globalization, it is anticipated that the number and magnitude of these global issues will continue to expand. We will examine globalization and its consequences on a wide variety of the world's wildlife and fisheries habitats, populations, and ecosystems. The scope of these issues is broad, spanning geographical, economic, societal, cultural and political boundaries. To provide a good representation and understanding of these issues, a spectrum of case studies and readings illustrating the impacts on fisheries and wildlife resources will be drawn upon.

Course Goals and Objectives:

- Gain an appreciation for the complexity of global issues that affect fisheries and wildlife resources and the multidisciplinary approach required to address them.
- Increase ones' knowledge of international and global issues affecting fisheries and wildlife populations, habitats and ecosystems.
- Demonstrate the transboundary and multidisciplinary aspect of global issues related to fisheries and wildlife resources.
- Develop critical understanding of the literature and analytical skills to assess global issues.
- Apply what is learned from the lectures and readings in identifying current and future issues that may impact fisheries and wildlife resources.

Reading Requirements:

You will be expected to read scientific articles and book chapters prior to the lectures. The readings will be made available on ANGEL and will provide a background for the lectures and students will be expected to be able to discuss the readings in class. A sample of potential readings includes:

- 1) Cole, H. 2003. Contemporary challenges: globalization, global interconnectedness and that there are not plenty more fish in the sea. Fisheries, Governance and globalization: is

there a relationship? *Ocean and Coastal Management* 46:77-102.

- 2) Stiglitz, J. 2002. *Globalization and its discontents*. W.W. Norton & Co., New York, NY
- 3) Le Sann, A. 1998. *A Livelihood from fishing: globalization and sustainable fisheries policies* Intermediate Technology Publications, London, England
- 4) Deem, S. L., and W. Weisman. 2001. Putting theory into practice: wildlife health in conservation. *Conservation Biology* 15: 1224-1233
- 5) Mills, E. L., J. H. Leach, J. T. Carlton, and C. L. Secor. 1993. Exotic species in the Great Lakes: a history of biotic crises and anthropogenic introductions. *Journal of Great Lakes Resources* 19:1-54

Student Debate

Debate issues will be determined by the class and approved by the instructors. Students will be expected to work in groups of fours, with two students assigned to one-side and two students to the other side of an issue. Each pair of student will be expected to prepare a 10 to 15 minutes PowerPoint presentation that will provide the necessary background information for their side of the issue and make an argument for why their side of the issue is the correct one. After both teams have presented their side, the four students will be expected to lead the class into a discussion (10 to 20 minutes) as to the merits and drawbacks of each side, delving deeper into the topic.

Paper Assignments

Each student will be required to write two brief papers for the class. Completion of these papers is required for a passing grade in the class.

The first paper (3-4 pages) will be due prior to the middle of the term. The instructors will give you a choice among three topics that will be covered during the first half of the semester. You will need to use information from multiple lectures to provide an overview of the topic, evaluate the issue, and provide recommendations; referencing lectures and class readings to support your statements.

The second paper (5-6 pages) will be due prior to the end of the semester. This paper will require a more in-depth analysis of an overarching theme covered by the class lectures. Similarly to first paper, you will be expected to use what you have learned from multiple lectures and class readings to support your statements. The paper should include presentation of the issue, evaluation, and recommendations.

Angel Reading Discussion

Students will be required to post a short reflection on the Angel course website on the background readings provided prior to the lecture. After the lecture, students will be expected to respond, using what they have learned during the lecture and from the background readings, to at least one reflection posted by another student. Instruction regarding the type of reflections and responses expected will be provided in class.

Grade Determinants:

First Exam	20%
Second Exam	20%

Student Debate	15%
First Paper	10%
Second Paper	15%
Angel Reading Discussion	10%
Class Attendance & Participation	10%

Tentative Schedule

Date	Item or Activity
January 10	Introduction
January 12	Economics of Globalization
January 17	The network implications of globalization
January 19	Peru in a Global Setting
January 24	ALIEN OCEAN Video
January 26	Environmental Crime and Globalization
January 31	Impacts of Globalization on water quality and water borne diseases
February 2	Globalization and the impact of fisheries management institutions in North America
February 7	California Water System
February 9	Coral Reefs
February 14	EMPTY OCEAN EMPTY NETS Video Paper 1 Due
February 16	Globalization and the commercial fishing industry – challenges from the past, opportunities from the future
February 21	Aquaculture: A Global Market with Local Effects
February 23	First Exam
February 28	Habitat Fragmentation and Giant Pandas
March 2	Globalization impacts on our ethics and values related to new food products/ labeling and certification in marketing and stewardship of fisheries
March 7	Spring Break
March 9	Spring Break
March 14	Impacts of Globalization on Wetland Ecosystems
March 16	Globalization and Birds
March 21	Kaduku National Park and Uranium Mining
March 23	Agriculture
March 28	Forestry: Management and Biodiversity, Spotted Owl
March 30	Global Market of Seafood
April 4	Himalayan tahr in New Zealand
April 6	Unraveling an emerging disease associated with disturbed aquatic environments: the case of Buruli ulcer
April 11	Globalization and Hunting
April 13	Transnational (multinational) corporations investment in fisheries and wildlife – pros and cons
April 18	CITES
April 20	Student Debates on Case Studies – Global Issues in FW
April 25	Student Debates on Case Studies – Global Issues in FW Paper 2 Due
April 27	Summary and Synopsis (Back to the Future), Course Evaluations
Finals Week	Second Exam