FW/MC 481 – Global Issues in Fisheries and Wildlife, Spring 2012

Case Hall, Room 335B
Mondays and Wednesdays, 8:30-9:50am

Scope of the Course:
MC/FW 481 investigates the influence of globalization on aquatic and terrestrial natural resources systems, their management, and governance. The course focuses on how advances in communication, transportation, and technology affect, both positively and negatively, the linkages between human and natural system. To adequately represent the ecological, geographic, economic, societal, cultural, and political issues of this topic, the course will include a variety of case studies and guest lectures.

Course Goals and Objectives:
• Gain an appreciation for the complexity of global issues that affect fisheries and wildlife resources and the multidisciplinary approach required for future sustainability;
• Increase knowledge of global issues affecting fisheries and wildlife populations, communities, and ecosystems;
• Demonstrate the trans-boundary and multidisciplinary aspect of global issues related to fisheries and wildlife resources their productivity, stability, preservation, and governance;
• Develop critical understanding of the literature and analytical skills to assess global issues related to animal and plant species, their habitats, and humans;
• Apply what is learned from the lectures and readings in identifying current and future issues that may impact the value of fisheries and wildlife resources and their governance.

Grade Determinants:
Angel Posting (each due 2 days prior to the lecture): 10%
First Paper (due Monday, February 6th): 12.5%
Proposal for term paper (due Wednesday, February 29th): 10%
Second Paper (due Monday, March 19th): 12.5%
Presentation/Discussion (April 16th, 18th, and 25th): 15%
Final Term Paper (due Monday, April 30th): 30%
Class Attendance & Participation: 10%
100%

Angel Postings (10%)
Pre-lecture materials (articles, websites, etc.) will be made available under this course’s group located on ANGEL (http://angel.msu.edu). These materials will provide a necessary background for the lectures, thus you need to be familiar with their contents. Students are required to post a short (1 to 3 paragraphs) reflection/question(s) on the ANGEL course website on the background
material provided prior to the lecture. If no pre-lecture material is available, then no pre-lecture posting will be required.

- Your postings will allow you to identify parts of the readings you found confusing and/or draw connections among different readings.
- Your reflections/questions will be made available to the lecturer to provide them a basis in which to interact more effectively with each of you.
- Postings will be graded on quality and relevancy of your reflections and response, including the use of reference material.
- Postings should be between 1 to 3 paragraphs in length.
- Post for Monday lectures are due by 5pm, the Saturday prior the lecture.
- Post for Wednesday lectures are due by 5pm, the Monday prior the lecture.
- Late posts receive 0%.

Paper Assignments (12.5% each)
Each student will be required to type two short papers for this class that demonstrate your ability to understand and integrate class material addressing the impact of globalization on fisheries and wildlife resources and their governance/management. Due at 8:30am in class Monday, February 6th and Monday, March 19th.

- The instructors will give you a choice among topics/questions for each short paper.
- Each paper should be between 3-5 pages, double space, 1-inch margins, and 12-point Times New Roman font.
- You will need to use information from multiple lectures and class reading materials to provide an overview of the topic, evaluate the issue, demonstrate an understanding of the relevant coupled human and natural systems, and provide recommendations.
- Support your statements using the information from multiple lectures, such as their PowerPoint slides and reading materials. No external (non-lecture based) required.
- Use in-text citation and a reference section. Follow the American Fisheries Society citation style (see angel course website for URL link and PDF).
- Papers will be graded based on:

  - The clear and brief overview of the issue;
  - The proper use of reading material and lectures to support your argument;
  - The synthesis of what you have learned from this class to make your own recommendations;
  - The use of appropriate references; and,
  - The persuasiveness of your arguments.

  - Late papers will receive deductions of 5% for each hour late.

Proposal for Term Paper (10%)
You will choose a fish or wildlife related natural resource topic of interest and explore how it is influenced by globalization. You should informally discuss potential topics with your instructors prior to submitting your proposal (email/after class). Due at 8:30am in class Wednesday, February 29th.

- You will need to submit a brief proposal (two to three paragraphs, double spaced, 12-size font, 1-inch margins) on your desired topic.
- In this brief proposal, you will tell us:
  - What fish or wildlife related environmental problem/issue you have chosen;
  - Why you are interested in this topic; and,
- Why this is an important topic.
- Late proposals will receive deductions of 5% for each hour late.

**Final Term Paper (30%)**

Upon approval of your proposal, you will write a five-section paper. Your term paper will differ from your short papers in that it will demonstrate more thorough investigation of your topic with greater thought, research and insight. Synthesis of all relevant reading and lecture material covered is necessary to support your thesis and recommendations. The five sections of your paper, with rough approximations of the typical page ranges for each section in parentheses on the right, are described below. Of course, you may write more or less in any given section depending upon the problem/issue you have chosen. *Due at 5pm on ANGEL Monday, April 30th.*

First, persuade the audience why this topic is important and worthy of attention. (2-3 pages)

Second, provide a brief overview of the topic and how globalization has had an influence. (2 pages)

Third, describe the major actors (governance institutions, NGOs, etc) and their role(s). If relevant include those actors who have not participated in this problem/issue to date. (3-4 pages)

Fourth, Assess how the role of each actor has affected how globalization has influenced the topic. (2-3 pages)

Fifth, Using the information and facts you have found related to this topic discuss how you believe the future of this topic will develop – support your statements with relevant material from lectures (PowerPoint/reading materials) and external references. (2 pages)

- Your term paper should be **about 12 to 16 pages**, double space, 1-inch margins, and 12-point Times New Roman font.
- Term papers will be graded based on:
  - Clarity of your thesis.
  - Synthesis of what you have learned from this class to make your own recommendations.
  - Proper use of **lecture material** (PowerPoint, reading material) to support your arguments.
  - Use of relevant and timely **external** references to support your arguments and conclusions. External references need to include **peer reviewed** sources of information (i.e., journal article, conference proceedings, book). Any online reference must come from a reliable web-source (government web-sites, official non-government sites, etc. *If you are unsure of the trustworthiness of a source, ask the instructors*). If you are using Wikipedia, you need to consult and cite the internal citations, as applicable.
  - Logical structure of your paper.
  - Demonstrated understanding of the complexity of the issues being investigated for
both natural and human systems.

- Rationale of for your conclusions / recommendations for enhanced sustainability of the fish or wildlife resource being investigated.
- Use in-text citation and a reference section. Follow the American Fisheries Society citation style (see angel course website for link and PDF).
- **Late papers will receive deductions of 5% for each hour late.**

**Student Presentation/Class Discussion (15%)**

- Students will be expected to work in teams. As a team, students will pick a case study provided by the instructors or suggest their own case study for approval by the instructors. Each team will be expected to provide 1 or 2 articles on their case study for the class to read, prepare a **20-minute** PowerPoint presentation, and lead a **20-minute** in-class discussion on the topic (be prepared with a list of questions to guide the discussion).

- PowerPoint presentation should include:
  - Background information for your topic;
  - Present the different perspective on the topic, such as the positive and negative influence of globalization related to the fish or wildlife resource at issue;
  - Statement as to the perspective you believe, supporting your argument with a detailed and compelling analysis of the available material (class-related and external material);
  - Present the international governance structures that may be contributing to (positively or negatively) the influence of globalization on the resource in question (per your perspective); and,
  - Your conclusions / recommendations from your analysis of the topic.

- Your grade is based on an individual and team grade.
  - Teams will be graded on the clarity with which the issue is presented, proper use of supporting material from peer reviewed material (scientific articles, books), class material, online material from reliable sources, synthesis and persuasiveness of your findings / conclusions to support your argument, logical structure of your presentation, proper use of figures / images, good presentation style, proper use of PowerPoint as a presentation tool (i.e., clear font size and color, no excessive text on slide, etc.; for more detail consult article by Michael Fraidenburg “Strategy and checklist of effective scientific talks” available on the angel site under the Content tab).
  - Individuals will be graded on clear speaking style, engagement of audience, ability to lead a class discussion, overall preparedness, and demonstrated competence of understanding the coupled human and natural system related to fish or wildlife resource system being considered.

**Class Attendance & Participation (10%)**

All students are expected to arrive to class on-time. Respectful and attentive behavior is expected from all students towards other students and lecturers. We expect lectures to generate a discussion among students and lecturers, thus questions and comments are encouraged both during and after the lecture, depending on the invited lecturer’s preference. **More than 3 unexcused absences may result in a course grade of 0%.**

**American Fisheries Society In-Text Citation and Reference Styles**
The below reference guidelines come from the American Fisheries Society Publication style guidelines. See the following webpage to download the entire PDF file for more in-depth instruction consult the class angel website or look at the reference information on the webpage:

For lecture-based information (class notes, PowerPoints) you can use the following style:
- If the information is from your class lecture notes and not available elsewhere, such as on Angel:
  - **In-text Citation:** (Taylor 2007)
- If the information is available in electronic format, such as the class lecture PowerPoint Angel, use the format for referencing electronic sources to reference this material.
  - **In-text Citation:** (Taylor 2007)

### Tentative Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, January 9th</td>
<td>Dr. Taylor</td>
<td>Introductions, class syllabus and expectations, and principles of globalization</td>
</tr>
<tr>
<td>Wednesday, January 11th</td>
<td>Dr. Nelson</td>
<td>Role of ethics in fisheries and wildlife resources</td>
</tr>
<tr>
<td>Monday, January 16th</td>
<td></td>
<td><em>Dr. Martin Luther King, Jr. Day – NO CLASS</em></td>
</tr>
<tr>
<td>Wednesday, January 18th</td>
<td>Dr. Riley</td>
<td>Principles of conservation (“North American” model)</td>
</tr>
<tr>
<td>Monday, January 23rd</td>
<td>Dr. Porter</td>
<td>Inclusive conservation: Adirondacks case study</td>
</tr>
<tr>
<td>Wednesday, January 25th</td>
<td>Dr. Taylor</td>
<td>Invasive species case study: Asian Carp</td>
</tr>
<tr>
<td>Monday, January 30th</td>
<td>Mark Rey</td>
<td>Business of ecosystem goods and services; ESA, CITES</td>
</tr>
<tr>
<td>Wednesday, February 1st</td>
<td>Dr. Taylor</td>
<td>Globalization and commercial fisheries (<em>End of the Line</em>); MSU library presentation</td>
</tr>
<tr>
<td>Monday, February 6th</td>
<td>Dr. Faisal</td>
<td>Spread of fish and other aquatic animal diseases; <strong>first paper</strong> due at 8:30am in class</td>
</tr>
<tr>
<td>Wednesday, February 8th</td>
<td>Rebecca Humphries</td>
<td>Migratory birds case study</td>
</tr>
<tr>
<td>Monday, February 13th</td>
<td>Jill Wingfield</td>
<td>Conservation Criminology and the importance in protecting fisheries resources and aquatic ecosystems</td>
</tr>
<tr>
<td>Wednesday, February 15th</td>
<td>Dr. Graham</td>
<td>Interjurisdictional fisheries governance institutions</td>
</tr>
<tr>
<td>Monday, February 20th</td>
<td>Dr. Goddard</td>
<td>Binational fisheries governance case study: Great Lakes Fisheries Commission</td>
</tr>
<tr>
<td>Wednesday, February 22nd</td>
<td>David</td>
<td>Use of Forensics in Wildlife management</td>
</tr>
</tbody>
</table>

FW/MC 481 5
<table>
<thead>
<tr>
<th>Date</th>
<th>Instructor</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 22(^{nd})</td>
<td>Stephens</td>
<td>Forestry in North America case study: spotted owl</td>
</tr>
<tr>
<td>Monday, February 27(^{th})</td>
<td>Dr. Roloff</td>
<td>Impacts of globalization on local resource exploitation case study: Nicaragua</td>
</tr>
<tr>
<td>Wednesday, February 29(^{th})</td>
<td>Dr. Kramer</td>
<td></td>
</tr>
<tr>
<td>Monday, March 5(^{th})</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday, March 7(^{th})</td>
<td></td>
<td>\textit{Spring Break – NO CLASS}</td>
</tr>
<tr>
<td>Monday, March 12(^{th})</td>
<td>Jordan Burroughs</td>
<td>Globalization, outreach, and sustainable resource management</td>
</tr>
<tr>
<td>Wednesday, March 14(^{th})</td>
<td>Dr. Rose</td>
<td>Globalization and water supply; \textbf{term paper topic} due at 8:30am in class</td>
</tr>
<tr>
<td>Monday, March 19(^{th})</td>
<td>Dr. Taylor</td>
<td>The changing face of conservation: from harvest to experience to environmental and personal health; \textbf{second paper} due at 8:30am in class</td>
</tr>
<tr>
<td>Wednesday, March 21(^{st})</td>
<td>Chiara Zuccarino-Crowe</td>
<td>Use of Aquatic Protected Areas on Fisheries biodiversity and sustainability; Sierra Student Organization beyond coal presentation</td>
</tr>
<tr>
<td>Monday, March 26(^{th})</td>
<td>Dr. Ebener</td>
<td>Tribal issues and interjurisdictional management</td>
</tr>
<tr>
<td>Wednesday, March 28(^{th})</td>
<td>Chris Weeks</td>
<td>Aquaculture as a global industry with local effects</td>
</tr>
<tr>
<td>Monday, April 2(^{nd})</td>
<td>Dr. Infante</td>
<td>Use of landscape ecology in emerging globalization</td>
</tr>
<tr>
<td>Wednesday, April 4(^{th})</td>
<td>Abby Lynch</td>
<td>The economics of climate change and fisheries (three class module)</td>
</tr>
<tr>
<td>Monday, April 8(^{th})</td>
<td>Abby Lynch</td>
<td>The economics of climate change and fisheries (three class module)</td>
</tr>
<tr>
<td>Wednesday, April 10(^{th})</td>
<td>Abby Lynch</td>
<td>The economics of climate change and fisheries (three class module)</td>
</tr>
<tr>
<td>Monday, April 16(^{th})</td>
<td></td>
<td>\textbf{Student Presentation (one team)}; assessment of climate change module</td>
</tr>
<tr>
<td>Wednesday, April 18(^{th})</td>
<td></td>
<td>\textbf{Student Presentation (two teams)}</td>
</tr>
<tr>
<td>Monday, April 23(^{rd})</td>
<td>Dr. Liu</td>
<td>Societal changes associated with globalization and effects on giant panda</td>
</tr>
<tr>
<td>Wednesday, April 25(^{th})</td>
<td></td>
<td>\textbf{Student Presentation (two teams)}</td>
</tr>
<tr>
<td>Monday, April 30(^{th})</td>
<td></td>
<td>\textit{Exams Week – NO CLASS}; \textbf{final term paper} due at 5pm on ANGEL</td>
</tr>
</tbody>
</table>