Marine Protected Area
Course Syllabus, Spring 2011

Institute of Ocean Technology and
Marine Affairs

Instructor information

- Name: TA-KANG LIU, PH.D., P.E.
- Office phone
  (06) 2757575 Ext. 31146
- Email: tkliu@mail.ncku.edu.tw
- Office: S&NME building 8F
- Courses offered:
  - Marine Protected Area
  - Marine Resources Policy & Management
Office hours

Wen 2:00p-4:00p; Thu 2:00p-4:00p;
Otherwise by email appointment.

<table>
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<tr>
<th>Topics</th>
<th>Total 45 hours</th>
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1 Introduction
Basic concept; Type of MPA; MPA system in U.S.; MPA statistics; Role and benefits of MPA

2 Ocean Conservation Issue
Primary issues: species and habitats; Secondary issues: human activities that cause changes; Tertiary issues: complex chronic problems

3 Coastal Ecosystem
Large Marine Ecosystem; Global Dynamics; Defining attributes; Physical components; Biotic land-seascape; Discussion of journal article

4 Biodiversity
Diversity of marine life; Life-history diversity; Prospects for biodiversity; Discussion of journal article

5 Legislative Requirement
UNCLOS and its implication; IMO designations; Other legal instrument

6 Selection of MPA
Basic concept; two case studies

7 Design and management of MPA
Case study on Great Barrier Reef Marine Park: Organization structure; Zoning planning; Zoning example; Lessons learned; Management tools; Key success factors

8 Student Presentation
The course includes lectures and discussions of research articles.

The lectures are based on textbooks and the primary literature, with attention given to active areas of research.

- Class participation 10%
- Midterm 30%
- Oral presentation 15%
- Term paper 15%
- Final Exam 30%

Textbooks:
- Kelleher, G. “Guidelines for Marine Protected Areas”, IUCN, 1999
- Dudley, N. “Guidelines for Applying Protected Area Management Categories”, IUCN, 2008

Journals:
- Ocean & Coastal Management
- Coastal Management
- Marine Policy
- TBA in class
Each student will select a current topic from MPA research related journals or publications for class presentation.

One page abstract due in class, April 19, 2011

Students are encouraged to submit abstract ahead of time. Change of topic after April 19 should be discussed with the instructor.

In the final weeks the course, each student will take turn presenting his work on the selected topic.

Five-page project report due in the final week. The report should be written in conformance to the format of Conference on Ocean Engineering.

Plagiarism is unacceptable in this class. Do not copy someone else’s words, statements, or thoughts without giving credit to the source of that information.

It is important to note that you can refer to information or ideas from another source, but you must correctly cite the sources in your work. Zero will be given when plagiarism is evident.
Exam

Attendance

- Tentative schedule:
  - Mid-term 9:00 a – 12:00 a, April 19, 2011
  - Final: 9:00 a – 12:00 a, June 28, 2011

- Attendance and participation in class is expected.

- In particular, if you miss a class due to a family or medical emergency, University-approved activity, or others, you must notice the instructor in advance of the absence (if planned) or as soon as possible afterward with proper documentation (if due to an emergency)