

## **Syllabus Energy and Environment (PHY 3010)-Fall 2009**

This is introductory multidisciplinary course focused on the understanding basics of production, consumption of different form of energy, ant it's environmental and economical impact. In order to accommodate different student backgrounds, mathematics is at the basic algebra level, some elements of statistics and risk analysis will be provided during course.

Textbooks:

Volume 1.

G. Boyle B. Everett, J. Ramage (Editors);

Energy Systems and Sustainability Oxford University Press, Oxford UK. 2003.

ISBN 0-19-926179-2

Volume 2.

G. Boyle (Editor);

Renewable Energy Oxford University Press, Oxford UK. 2004.

ISBN 0-19-926178-4

### **The textbook material will be covered as follows:**

Textbook Volume 1:

Weeks 1 and 2:.....(August 24-September 06).....Chapters 1-3.

Weeks 3 and 4:.....(September 07-September 20).....Chapters 4-5.

Weeks 5 and 6:.....(September 21-October 04).....Chapters 6-9.

Weeks 7 and 8:.....(October 05-October 18).....Chapters 10-11.

Weeks 9 and 10:.....(October 19-November 01).....Chapters 12-14.

Textbook Volume 2:

Weeks 11 and 12:.....(November 02-November 15).....Chapters 1-3.

Weeks 13 and 14:.....(November 16-November 29).....Chapters 4-8.

Weeks 15 and 16:.....(November 30-December 13).....Chapters 9-10.

Grading:

Assignments (homework):.....40%

Tests (four):.....40%

Final exam:.....15%

Written article:.....5%

We will have seven homeworks.

**Homeworks will be posted as follow:**

Homework 1.....August 28.

Homework 2.....September 11.

Homework 3.....September 25.

Homework 4.....October 09.

Homework 5.....October 23.

Homework 6.....November 06.

Homework 7.....November 20.

The article (essay) will be assigned on the October 09, 2009.

**Tests:**

The four tests will be assigned:

Test 1.....September 18.

Test 2.....October 16.

Test 3.....November 13.

Test 4.....December 07.

You will be able to access homeworks two times (higher score will be taken toward final grade). Tests and Final Exam will have one access.

**Final Exam:.....December 14, 2009.**

**All assignment dates refer to posting dates. Availability period for homeworks will be approximately 13 days, for the tests approximately 4 days, and for the final exam one day, only. For each assignment, I will post exact due date in timely manner.**

**The course content, and course related information will be updated on daily basis. You have to visit the course site regularly (the least two to three times per a week).**

Final grading:

A...86%-100%

B...70%-85%

C...60%-69%

D...50%-59%

F...below 50%

Please, be aware of Academic Integrity ("Undergraduate Catalog 2009-2010", Eastern Illinois University) regarding academic honesty, cheating, and plagiarism.