

Syllabus Energy and Environment (PHY 3010)-Summer 2011

This is introductory multidisciplinary course focused on the understanding basics of production, consumption of different form of energy, and its environmental and economical impact. In order to accommodate different student's 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 follow:

Volume 1:

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|---------|--------------------|-----------------|
| Week 1: | (June 13-June 19) | Chapters 1-3. |
| Week 2: | (June 20-June 26) | Chapters 4-5. |
| Week 3: | (June 27-July 03) | Chapters 6-9. |
| Week 4: | (July 04-July 10) | Chapters 10-11. |
| Week 5: | (July 11- July 17) | Chapters 12-14. |

Volume 2:

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|---------|-------------------|---------------|
| Week 6: | (July 18-July 24) | Chapters 1-3. |
| Week 7: | (July 25-July 31) | Chapters 4-8. |

Week 8: (August 01-August 05) Chapters 9-10.

Grading:

Homework assignments (seven):	40%
Tests (four):	40%
Final exam:	20%

Homework assignments:

Homework 1:	June 17.
Homework 2:	June 24.
Homework 3:	July 01.
Homework 4:	July 08.
Homework 5:	July 15.
Homework 6:	July 22.
Homework 7:	July 29.

Two 150 minutes attempts will be allowed. Higher score will be taken toward final grade.

Tests:

The four tests will be assigned:

Test 1:	June 24.
Test 2:	July 08.
Test 3:	July 22.
Test 4:	July 29.

Final Exam: August 05, 2011.

The tests will have one 120 minutes access.

The final exam will have one access.

If you have missed one test and you are able to give good reason for it, one makeup test may be assign on August 04, 2011. It will be all comprehensive and have one access only.

In order to take this test you must apply for it between July 29 and August 02, 2011 using WebCT e mail, only. Your e mail must contain information about test you have missed, and reason why you have missed. If explanation is not sufficient I may deny the makeup test.

Under any circumstances, the makeup will not be granted for a missing homework.

Note:

All dates refer to posting dates. Due dates will be posted by the posting dates. Typically available access times are:

for homework assignments seven days;

for tests four days;

for the final exam one day;

for makeup test one day.

Available access times may slightly vary from values cited. Due dates will be posted at the “INF...” link.

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 2010-2011”, Eastern Illinois University) regarding academic honesty, cheating, and plagiarism.