

**WIND1300**  
**Introduction to Wind Energy**  
**Syllabus**  
**Fall 2010**

Revised 8-16-2010 By John Havens

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**Instructor**

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**Course Description**

Introduction to the evolution of wind technology, wind energy anatomy, wind farm design, and characteristics of energy sources.

**Course Goal/Learning Objectives**

At the end of the course you should be able to:

- Know the origins and history of wind turbine energy production
- Understand operational parameters of wind turbines (mechanical, electrical, control)
- Understand institutional issues; local, environmental, and national
- Have a basic knowledge of the mechanical components of a wind turbine

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## Course Requirements

TEXT BOOK REQUIRED: GILLIS, CHRISTOPHER, WINDPOWER ISBN: 978-0-7643-2969-2

## Course Grade

Midterm test	25%
Quizzes	25%
Assignments	25%
Final	25%

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## Course Schedule

Tentative, cover a chapter per week.

Tentative Fall 2010 Course Schedule Wind1300 Introduction to Wind Energy	
Week Of	Lecture Topics
August 23, 2010	Getting started and familiarization
August 30, 2010	Chapter 1, Origins and history
September 6, 2010	Chapter 2, Pioneers, Quiz Chapters 1,2
September 13, 2010	Chapter 3, Small wind power

September 20, 2010	Chapter 4, Scaling up Quiz Chapters 3,4
September 27, 2010	Chapter 5, California's Winds
October 4, 2010	Chapter 6, Europe's Leadership Quiz Chapters 5,6
October 11, 2010	Midterm
October 18, 2010	Chapter 7, Building a wind farm
October 25, 2010	Chapter 8, Offshore Wind Quiz Chapters 7,8
November 1, 2010	Chapter 9, North America's Wind Rush
November 8, 2010	Chapter 10, Global Spread Quiz Chapters 9, 10
November 15, 2010	Chapter 11, Fitting In
November 22, 2009	Thanksgiving Holidays
November 29, 2010	Chapter 12, Growing up
December 6, 2010	Final Exam

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### **Notes to Students**

A. The instructor is fallible and not any smarter than you. Remember you are at the prime of ability for intellectual endeavors. **YOUR EFFORTS ARE THE KEY.** I will also be learning from you.

#### **B. HYBRID COURSE**

This is a hybrid course, meaning instruction is carried both online and in person, but it is not self paced because due dates are structured. This means the students are doing the work with the instructor providing guidance. Username and password for the course will be issued after payment of fees.

#### **C. CHAT**

Chat sessions are for exchanging information, asking questions with response from instructor, other students, and possibility guest professors. I will schedule a chat with the class ahead of time. In the event of a chat session being held I will follow up with a discussion summarizing the chat.

## D. PROBLEMS

You will be assigned A Quiz every two chapters.

## E. OTHER MATERIAL OF INTEREST, INTERESTING LINKS

I want your comments and suggestions, especially on links. Send by course mail available on the course menu and on the course homepage. Also send your comments and suggestions about the online aspect of the course. If you have ideas for graphics and even video clips which would help in understanding the material, please send them to me via course mail.

## **Classroom Policies:**

### Class Conduct

Failure to comply with lawful direction of a classroom instructor is a disruption for all students enrolled in the class. Cheating violations include, but are not limited to: (1) obtaining an examination, classroom activity, or laboratory exercise by stealing or collusion; (2) discovering the content of an examination, classroom activity, laboratory exercise, or homework assignment before it is given; (3) using an unauthorized source of information during an examination, classroom activity, laboratory exercise, or homework assignment; (4) entering an office or building to obtain unfair advantage; (5) taking an examination for another person; (6) completing a classroom activity, laboratory exercise, homework assignment, or research paper for another person; (7) altering grade records; (8) using any unauthorized form of electronic communication device during an examination, classroom activity, or laboratory exercise; (9) Plagiarism. Plagiarism is the using, stating, offering, or reporting as one's own, an idea, expression, or production of another person without proper credit.

Disciplinary actions for cheating in a course are at the discretion of the individual instructor. The instructor of that course will file a report with the Dean of Students when a student is caught cheating in the course, whether it be a workforce or academic course. The report shall include the course, instructor, student's name, and the type of cheating involved.

Students who are reported as cheating to the Dean of Students more than once shall be disciplined by the Dean. The Dean will notify all involved parties within fourteen days of any action taken.

### American with Disabilities Act Statement:

Clarendon College provides reasonable accommodations for persons with temporary or permanent disabilities. Should you require special accommodations, notify the Office of Student Services (806-874-3571 or 800-687- 9737). We will work with you to make whatever accommodations we need to make.

### Dropping a Course:

A student who is enrolled in a developmental course for TSI purposes may not drop his/her only developmental course unless the student completely withdraws from the college. A student may drop any other course with a grade of "W" any time after the census date for the semester and on or before the end of the 12<sup>th</sup> week of a long

semester, or on or before the last day to drop a class of a term as designated in the college calendar. The request for permission to drop a course is initiated by the student by procuring a drop form from the Office of Student Services. (Refer to other policies concerning this issue in the current college catalog online.)

Withdrawal from College:

When a student finds it necessary to withdraw from school before the end of the semester, he or she should obtain a withdrawal form from the Office of Student Services. Students may also withdraw from the college by sending a written request for such action to the Registrar's Office. The request must include the student's signature, the student's current address, social security number and course information details. Students who withdraw after the census date for the semester and on or before the end of the 12<sup>th</sup> week of a long semester, or on or before the last day to drop a class of a term as designated in the college calendar will be assigned a grade of "W."

Class requirements:

Cheating, plagiarism or other dishonest acts shall be dealt with to the extent of dismissal from the class permanently on a case by case basis. Under no circumstance will an individual be exonerated after a second incidence, but will be immediately dropped.

Any missed quizzes or exams will result in a zero on that particular quiz or exam. It is the student's full responsibility to complete a quiz or exam by the due date assigned by the instructor. The Final exam will be taken on the prescribed day or arranged day prior to the final exam. No exceptions.

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