PHYS 361 Electromagnetic Theory Fall 2004

Instructor: Dr. Alan Denton
Physics, South Eng. 214B
Tel: 231-7036
alan.denton@ndsu.nodak.edu

When? TR 9:30-10:45 a.m.

Where? South Engineering 314

What? Electricity and magnetism are phenomena that surround us in both the natural and technological worlds. Once viewed as independent, their essential unity has been recognized since the experimental work of Michael Faraday and the invention of the electric generator. The Maxwell equations, which relate electric and magnetic fields, still stand among the greatest achievements of theoretical physics. Today, our basic understanding of these phenomena underpins the electronics, telecommunications, magnetic storage, and many other industries.

How? 3 hrs/week of interactive lectures and problem-solving sessions.

Textbook: David J. Griffiths, Introduction to Electrodynamics, 3rd ed. (Prentice Hall, Upper Saddle River, 1999)

Evaluation:

Homework Assignments	100 points
3 Exams	100 points/each
Research Project	100 points
In-class participation	50 bonus points

No makeup exams will be scheduled.

Communication: Assignments, announcements, etc., will be routinely posted on the Blackboard website (http://blackboard.ndsu.nodak.edu). You must ensure your own enrolment. In case of difficulty, please contact the ITS Help Desk (1-8685).

Lateness Policy: Weekly assignments are due at the beginning of Tuesday's class. Late work will be accepted with a 20% penalty per day until the beginning of Thursday's class. Thereafter, no late assignments can be accepted.

Help! Office hours to be arranged.

Academic Honesty and Special Needs:

All work in this course must be completed in a manner consistent with NDSU University Senate Policy, section 335: Code of Academic Responsibility and Conduct (http://www.ndsu.nodak.edu/policy/335.htm).

Any students with disabilities who need accommodation in this course are encouraged to speak with the instructor as soon as possible to make appropriate arrangements.