Exam 2 Information

Exam 2 will take place on Thursday April 20 from 7:30-9:30 pm.

The Friday classes on April 21 are cancelled because of the evening exam.

Exam 2 Room Assignments:

L01 in 50-340 (Walker)
L02 in 50-340 (Walker)
L03 in 26-100
L04 in 26-100
L05 in 32-123
L06 in 34-101
L07 in 26-100
L08 in 26-152

Conflict Exam 2 will be held Friday April 21 from 8-10 am in 26-322 and from 9-11 am in 32-123.

If you have a regularly scheduled academic activity that conflicts with the Thursday evening exam, the conflict exam is scheduled on Friday April 21 either from 8-10 am in 26-322 or 9-11 am in 32-123. For conflict exam requests, please fill out the google form at

https://docs.google.com/forms/d/e/1FAIpQLScs1WmoxSutcIsxavYoFuoJm9qqzRWWE2w5ol33GhvvVDe3mg/viewform?usp=sf_link

Exam Preparation: To study for this exam, we suggest that you review pre-class reading questions, in-class problems, in-class concept questions, Friday problem solving sessions, problem sets, relevant parts of the study guide, class notes, and work through past exams.

Exam 2 Topics: The exam format will consist of three analytic problems and five conceptual questions drawn from the following topics:

1. Current, resistance, and Ohm’s Law
2. Magnetic field
3. Magnetic force on moving charges and current carrying wires in external magnetic fields
4. Magnetic dipole moment vector
5. Torque and force on a magnetic dipole in an external magnetic field (Experiment 2)
6. Biot-Savart law 
7. Ampere’s Law 
8. Faraday’s Law 
9. Mutual and self-induction 
10. Energy stored in magnetic fields 

Study Guide: For each of these topics, we suggest you write up a study guide that consists of three sections

Part 1: Conceptual Explanation of Key Concepts. You may want to print up Concept Questions from Class or Old Exams and add them here.

Part II: A summary of methodological approaches to problem solving. Many students do not apply enough detail and hence make errors on exam questions even though they have understood the concept. Applying the concept is much harder and you need to be very careful. You can compare your summaries with problem set solutions and in-class problem solutions to see if your summary is comprehensive enough.

Part III: Write up a set of solutions to problems that illustrate all the basic cases. You can draw from the in-class problems, and the problem sets. This part is critical. If you have enough examples that cover the concept, then when taking practice tests you have a basis of knowledge to draw on.

Attending Class: Please keep in mind that coming to class is the single most important thing you can do. Please carefully read and then answer the Reading Questions for each class. Don’t just search for the answers or ask your friends. Preparing for class is a crucial piece of time management. If you do prepare, your learning will be much more efficient and you will save valuable time.

Good Problem Set Habits: The problems sets are a crucial part of the course. I strongly encourage you to start the problem set early, and try it on your own before you talk to your peers or ask for help. This will especially help time management and you will discover that by starting the problem set early you will get more out of class.

Reviewing Solutions: You should print up and review solutions to all the in-class problems and problem sets!

Additional Resources

Go to anyone's office hours (see website for times)
Go to Sunday tutoring in 26-152
Go to Exam Review Night