I. Purpose
Physics 470 is an individual instruction course involving undergraduate research and technical presentations. The purpose of this course will be to give the student experience in research and preparation for oral presentations on scientific research. Each student will learn how to use multimedia in his or her seminars.

II. Attendance
Attendance will be taken and will be worth 5 points toward your attendance grade. Your overall attendance grade will be recorded on a 100-point scale.

III. Seminar Requirements (Thursdays at 4:00 - 4:50 PM)
You will be giving two seminars that will be between 20 and 30 minutes in length. Your seminar should include the following:
1. An introduction to the topic
2. PowerPoint slides
3. A description of the physics involved in your topic
4. Mathematical equations related to your topic
5. A hands-on demonstration or chalkboard derivation
6. Summary or conclusions

IV. Research Requirements (Tuesdays at 4:00 - 4:50 PM)
During these 15 Tuesdays of the semester the student will:
1. Conduct some undergraduate research in one of the research labs.
2. Your second Thursday seminar will be based on what you have learned in one of these research labs.
3. Work on a resume and portfolio to be used after graduation.
4. Work on and practice seminars.

V. Grading
During the semester each student will give two seminars. The seminars are graded based on comments by the faculty members on written forms.

Average = (Seminar #1 Grade + Seminar #2 Grade + Attendance Grade + Research Grade) / 4

A  90 - 100  B  80 - 89  C  70 - 79  D  60 - 69  F  < 60

Students with documented disabilities who need course adaptations or accommodations please make an appointment with me as soon as possible.