

SENIOR SEMINAR SYLLABUS

General Information

Meeting Time: Th 4:15-5:15

Semester: Fall 1998

Instructor: Brent Hoffmeister

Office: 215 RT

Office Phone: X3913

Office Hours: 1:00-3:00 MF, 10:30-12:00 MWF, other times by appointment

Suggested Textbook: *A Review of Undergraduate Physics* by Bayman and Hamermesh, Wiley Publishing, ISBN 0-471-81684-1

Course Requirements

Attendance: Seminar meetings are scheduled every week. Your attendance is required.

Practice Seminar: You will choose a topic from a list that will be provided. The list will be compiled from recent research efforts that have represented important advances in physics. Your grade will be based on your demonstrated understanding of the topic and your ability to present the material in a clear and interesting fashion.

Physics Review: One purpose of senior seminar is to encourage you to review the material you have covered in your physics courses, and to help you assimilate and internalize this information. Several review sessions will be lead by different members of the faculty. You will be expected to participate in these sessions, and to spend time outside of our weekly meetings to review on your own. The suggested textbook "*A Review of Undergraduate Physics*" may prove helpful in your review. Your efforts will be evaluated by your performance on a Review Exam that is scheduled on the calendar.

SPS Activity: Each senior will be required to arrange and coordinate an activity involving the SPS (Society of Physics Students). The activity must be educational and/or service oriented. A written proposal is required on the date indicated by the seminar calendar. Your grade will be based on the timely submission of this proposal, and the overall effectiveness of the activity in promoting an enthusiasm for physics and educating the participants.

CV: You will be required to prepare a curriculum vitae (CV) that will be posted on the physics web page. A workshop will be prepared with contributions from all the physics faculty to help you begin preparation of your CV. The final version of the CV is due on the date indicated by the seminar calendar. Your grade will be based on the appearance, completeness, and timely submission of your CV.

Grading Procedures

Your final grade for Senior Seminar will be determined in the following weighted manner:

Attendance	30%
Practice Seminar	30%
Review Exam	20%
SPS Activity	10%
CV	10%

Course Calendar

Date	Subject
Thu. Aug. 27	(No meeting)
Thu. Sep. 3	Organizational Meeting
Thu. Sep. 10	Review Session: <i>Physical Optics</i> , Prof. Streete
Thu. Sep. 17	Review Session: <i>Nuclear and Particle Physics</i> , Prof. MacQueen Due: Project Proposal
Thu. Sep. 24	Review Session: <i>Electricity and Magnetism</i> , Prof. Barnhardt
Thu. Oct. 1	Seminar: (Speaker to be announced)
Wed. Oct. 7	Seminar: Speaker from HAO
Thu. Oct. 8	Seminar: Speaker from HAO
Thu. Oct. 15	Review Session: <i>Atomic Physics</i> , Prof. Hoffmeister
Thu. Oct. 22	CV Workshop
Thu. Oct. 29	Seminar: Soren Sorensen: <i>Can We Recreate the Big Bang in the Laboratory?</i>
Thu. Nov. 5	Seminar: Denis DiAngelo: <i>Biomechanical Models for the Human Spine</i> Due: CV
Sat. Nov. 7	Review Exam
Thu. Nov. 12	Student Seminar: Dan Brown
Tue. Nov. 17	Seminar: Ciprian Foias: <i>Elementary Models for Running</i>
Thu. Nov. 19	Student Seminar: Jack Coleman
Thu. Nov. 26	(Thanksgiving Recess)
Thu. Dec. 3	Student Seminar: Gerry Tansey
Thu. Dec. 10	(Reading Day)

