

**MATH 423 SPRING 2006: LIE GROUPS FOR
UNDERGRADUATES
SYLLABUS**

Meeting time: MTW 1-2, Gilman 10

Instructor: Florin Spinu. e-mail: fspinu@math.jhu.edu

Office hours (walk-in): M 2:00 - 5:00 pm, Krieger 312 or by appointment.

Textbook

Howard Georgi, Lie algebras in Particle Physics, second edition, Westview Press.

Course goals: representations of finite groups and compact Lie groups. Emphasis on $SU(n)$ and $SO(n)$. Connections with quantum mechanics and particle physics.

Homework. Assigned in class every other week and collected on Tuesday the next week, at the beginning of lecture.

Exams

One midterm exams: Mar 14 (Tuesday, in class).

Final exam: TBA.

Exam policy. Exams are closed book, closed notes. There will be no make-up exams. If an exam is missed with a valid excuse, the grade for that exam will be a weighted average of the grades obtained on subsequent exams. The grade for an unexcused exam will be a zero. The Academic Advising Office provides letters for excused absences. If you have a conflict with an exam or need special arrangements, you must notify the instructor in writing at least two weeks in advance.

Attendance: lecture attendance is mandatory.

Grading Policy: Homework 40%, Midterm 25%, Final 35%.

Ethics Statement. The strength of the university depends on academic and personal integrity. In this course, you must be honest and truthful. Ethical violations include cheating on exams, plagiarism, reuse of assignments, improper use of the Internet and electronic devices, unauthorized collaboration, alteration of graded assignments, forgery and falsification, lying, facilitating academic dishonesty, and unfair competition.

Report any violations you witness to the instructor. You may consult the associate dean of students and/or the chairman of the Ethics Board beforehand. See the guide on "Academic Ethics for Undergraduates" and the Ethics Board website (<http://ethics.jhu.edu>) for more information.