

Math 462 - Syllabus¹
“Advanced Linear Algebra”
<http://beshapiro.com/math462>

Instructor Contact Information: Bruce E. Shapiro, Ph.D. Email: bruce.e.shapiro@csun.edu
Email is the best way to contact me; I don't use the phone that is listed with the department so don't leave any phone messages.

Class Time/Location: MW 7:00-8:15 PM in Chaparral Hall 5114

Catalog Description: Prerequisite: Math 262; MATH 320. Finite dimensional vector spaces, linear transformations, matrix polynomials, canonical forms.

Course Objective: An in-depth survey of the algebra of linear maps and operators.

Grading: There will be **four or five homework sets** and a **final exam (Monday Dec 14, 8-10 PM)**; all count equally towards your grade (i.e., the final exam is equivalent to one homework set).

All assignments must be typeset (not handwritten) using L^AT_EX. Feel free to discuss the homework with one another outside of class, but what you turn in should reflect your own work and understanding of the material. If you work in a group, you should not turn in exact copies of one another's work. You need to demonstrate that you understand the material, not some sort of group consensus.

Attendance is Required: Your grade will be reduced by 3 points (out of 100) for each unexcused absence. Job/employment scheduling issues are generally not acceptable.

Textbook: Sheldon Axler. *Linear Algebra Done Right, 2nd Edition*. Springer (1997). ISBN 0-387-98259-0.

Student Conduct: Students are expected to conduct themselves in accord with university policies on Student Conduct and Academic Dishonesty. Violation of this code could be punishable by a failing grade in the class or removal from the university, as determined by Dean of Students.

I require students to sign an affirmation that they will abide by the student conduct code (and not cheat in this class) and to reaffirm this contract at each exam. If you are uncomfortable signing this affirmation you should not enroll in this class.

The student conduct code is posted at: <http://www.csun.edu/a&r/soc/studentconduct.html> and is in the University Catalog, Appendix C.

Cookies: Students are encouraged to bring snacks to share with the class.

Cell Phones/Computers/PDA's: Put your ringers on silent and turn off keyclick on your computers. I reserve the right to make fun of your ringtones. If you use a computer sit in the back of the class to avoid distracting other students.

Impact of State Budget Crisis: The CSU (California State University System) is facing a \$585 million dollar reduction in funding. The CSU is recovering this loss by reducing salaries for faculty, administrators, managers, staff workers, maintenance workers, nurses, instructors, librarians, etc., as well as through significant tuition increases, and by class cancellations and size reductions. The university has also implemented a furlough plan, in which the university will be closed on certain days; and each faculty member is required to be absent from the university for 9 days per semester. We cannot do any work for the University on these furlough days: no returning or taking of phone calls, no reading emails, no grading papers, no teaching, nothing. Thus some classes may be cancelled or rescheduled; some material may be omitted from the class; and it will take longer for papers to be graded and returned. You will be informed in advanced of any schedule changes or cancellations.

¹Subject to change without notices. If you are reading a pdf or printed version it may not reflect the most recent information. Please check the class website for the most recent version. This version was produced on August 22, 2009.