Instructor: Jeffrey Case
Email: jscase@psu.edu
Office: 221 McAllister Building
Office Hours: MW 3–4pm, or by appointment.

Course Organization: MWF from 1:25–2:15pm in 204 Sackett Building. Attendance is strongly recommended.

Course Web Page: http://www.personal.psu.edu/jqc5026/teaching.html or ANGEL


Course Contents: Time permitting, this course covers the entirety of Axler’s *Linear Algebra Done Right*. This is a course in abstract linear algebra, focusing on finite-dimensional vector spaces over the real and complex numbers and linear operators which act on them. Topics include eigenvalues and eigenvectors; inner product spaces; the spectral theorem; the Cayley–Hamilton theorem; and the Jordan canonical form.

Assignments, Exams and Grading Policies: Your grade will be based on three components:

- **Weekly Homework Assignments (30%)** The homework assignments will be posted on the course webpage and ANGEL. Assignments are due on Fridays at the beginning of class (there will be no homework due the first week or during the week of an exam). Late assignments will not be accepted for any reason; instead, the two lowest homework scores will be dropped.

- **Midterm Exams (40%)**: There will be two in-class midterms, each worth 20% of your grade. The midterms will take place on Friday, October 2 and Friday, November 6.

- **Final Exam (30%)**: The final will be given during the week of December 14–18. The date will be announced later.

Grades will be assigned on the 90-80-70 scale; this may be adjusted downward at my discretion. Plus and minus grades will be given at my discretion.

Academic Integrity Statement: All Penn State policies regarding ethics and honorable behavior apply to this course. The expectations for written work are as follows:

1. The midterm and final exams are closed book and closed notes. You may not use your textbook, bring notes of any sort, or use any technology to complete the exam. You must complete the exam on your own; you may not consult with your fellow students.

2. Your written homework assignments must be your own work. However, you are strongly encouraged to work on homework assignments with your fellow students. You may discuss and solve problems with your peers, but your submitted solutions must be written in your own words. If you complete a significant portion of a given homework assignment with others, you should acknowledge their contributions on the front page of your completed assignment.

Disability Statement: Penn State welcomes students with disabilities into the University’s educational programs. The Office for Disability Services Web site provides contact information for every Penn State campus: http://equity.psu.edu/ods/dcl. For further information, please visit the Office for Disability Services Web site: http://equity.psu.edu/ods.