

MAT 531 – Second Course in Linear Algebra

Instructor: Stephan Wehrli, 304B Carnegie, smwehrli@syr.edu

The course will cover Chapters 1,2,5, and 6 in the textbook, as well as additional topics.

Thematically, the course will be similar to MAT 331. However, it is not intended to be an immediate continuation of MAT 331, but rather aims to reintroduce important concepts of linear algebra in a more abstract, coordinate-free setting. Consequently, the focus of the course will be on proofs and concepts, not on calculations.

The course will cover the following topics:

- Abstract vector spaces and bases
- Linear transformations and their matrix representations
- Eigenvalues and eigenvectors of linear transformations
- Inner product spaces
- Applications

More information can be found below:

- **Text:** *Linear Algebra*, by Friedberg, Insel, and Spence, Fourth Edition, Prentice Hall, 2003.
- **Classes:** Tu and Th, 12:30 - 1:50, 115 Carnegie
- **Office Hours:** Tu 3:20 - 4:20 and Th 3:30 - 5:00, and by appointment
- **Midterm Exam:** Thursday, March 6
- **Final Exam:** Tuesday, May 6, 2014, 2013, 8:00 - 10:00, 115 Carnegie
- **Grading:** Homework and Midterm Exam count 30% each, Final Exam counts 40%
- **Calculator Policy:** Calculators are not allowed in the exams
- **Academic Integrity:** See Syracuse University's Academic Integrity Policy at <http://academicintegrity.syr.edu/>
- **Students with Disabilities:** If you believe you need an accommodation for a disability, please talk to me at the beginning of the semester or contact the Office of Disability Services (ODS), located in Suite 303 of 804 University Avenue, or call (315) 443-4498
- **Religious Observances Notification:** Students who will be observing religious holidays during the semester are required to fill out their notification form on MySlice by the end of the second week of classes.

Course Webpage: <https://smwehrli.expressions.syr.edu/teaching/mat-531-spring-2014>