

MAT 531 – M001 – 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. Theoretically, 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, 119 Carnegie
- **Office Hours:** TBA
- **Midterm Exam:** TBA
- **Final Exam:** Friday, December 12, 2014, 10:15 - 12:15, 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:** Syracuse University sets high standards for academic integrity. Those standards are supported and enforced by students, including those who serve as academic integrity hearing panel members and hearing officers. The presumptive sanction for a first offense is course failure, accompanied by the transcript notation Violation of the Academic Integrity Policy. The standard sanction for a first offense by graduate students is suspension or expulsion. Students should review the Office of Academic Integrity online resource [Twenty Questions and Answers About the Syracuse University Academic Integrity Policy](http://academicintegrity.syr.edu/academic-integrity-policy) and confer with instructors about course-specific citation methods, permitted collaboration (if any), and rules for examinations. The Policy also governs the veracity of signatures on attendance sheets and other verification of participation in class activities. See <http://academicintegrity.syr.edu/academic-integrity-policy>
- **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-fall-2014>