

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:** MWF 10:35 AM - 11:30 AM, 111 Hall of Languages
- **Office Hours:** MWF 1:30 PM - 2:30 PM or by appointment
- **Midterm Exams:** Tentative dates: Friday, October 9 and Friday, November 13
- **Final Exam:** Monday, December 14, 3 PM - 5 PM, 111 Hall of Languages
- **Grading:** Homework will count 20%, Midterm Exams 25% each, and Final Exam 30%
- **Calculator Policy:** Calculators are not allowed in the exams
- **Students with Disabilities:** If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), <http://disabilityservices.syr.edu>, located in Room 303 of 804 University Avenue, or call 315-443-4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible for coordinating disability-related accommodations and will issue students with documented disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible. You are also welcome to contact me privately to discuss your academic needs although I cannot arrange for disability-related accommodations.
- **Academic Integrity:** The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The

policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort. For more information and the complete policy, see <http://academicintegrity.syr.edu>

- **Religious observances policy:** SU religious observances policy recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to a religious observance provided they notify their instructors before the end of the second week of classes. For fall and spring semesters, an online notification process is available through MySlice (Student Services -> Enrollment -> My Religious Observances) from the first day of class until the end of the second week of class.

Course Webpage: <https://smwehrli.expressions.syr.edu/teaching/mat-531-fall-2015>