MAT 531 – M002 – 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:** TTh 11:00 AM - 12:20 PM, 119 Carnegie
- **Office Hours:** TTh 3:30 PM - 4:30 PM or by appointment
- **Course Webpage:** https://smwehrli.expressions.syr.edu/teaching/mat-531-spring-2016
- **Midterm Exam:** There will be one midterm exam, which will tentatively be given on Thursday, March 10.
- **Final Exam:** The final exam will cover the entire course and will be given on Friday, May 6, from 8:00 AM to 10:00 AM in 119 Carnegie. Time and location of the final exam are subject to change.
- **Homework:** Written assignments will be announced weekly on the course webpage.
- **Grading:** The midterm exam will count for 30% of your course grade and the final exam for 40%. The remaining 30% will come from the homework.
- **Calculators:** Calculators will not be allowed on the exams. This includes calculators on cell phones. All electronic devices other than the calculator should be silenced and put away during class.
- **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 or TDD: (315) 443-1371 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:** Syracuse University's 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.