MAT 331 – M003 – First Course in Linear Algebra

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

The course will cover the following topics: linear equations, linear transformations, matrices, n-dimensional Euclidean spaces, associated geometry. Credit will not be given for both MAT 331 and MAT 485. More information about the course can be found below.

- **Prerequisites:** MAT 286 or MAT 296
- **Text:** *Linear Algebra and its Applications*, by David C. Lay, Fourth Edition, Addison-Wesley.
- **Classes:** Tu and Th, 9:30 - 10:50, 122 Carnegie
- **Office Hours:** Tu 3:20 - 4:20 and Th 3:30 - 5:00, and by appointment
- **Midterm Exams:** Thursday, February 13, and Thursday, April 10
- **Final Exam:** Monday, May 5, 2014, 8:00 - 2:30 (exact time TBA), 122 Carnegie
- **Grading:** Quizzes will comprise 20% of the course grade, each Midterm Exam will count 25%, and the Final Exam will count 30%
- **Homework:** Will be assigned (see the list below) but not collected
- **Calculator Policy:** Calculators are not allowed in the exams and in the quizzes
- **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-331-spring-2014

List of Suggested Homework Problems:

Section   Suggested Problems

- 1.1   11, 13, 14, 15, 17, 21, 25, 27
- 1.2   2, 6, 9, 15, 19 (find all h, k), 23, 25, 29, 31
- 1.3   3, 7, 9, 11, 15, 17, 21, 23b-e, 25bc
- 1.4   9, 11, 15, 17, 19, 21, 22, 31, 33
- 1.5   1, 9, 11, 17, 29, 30, 31, 32
- 1.7   1, 7, 9, 11, 15, 17, 19, 21bc, 30ab, 31
- 1.8   1, 5, 7, 8, 9, 17, 19, 29ab, 31
- 1.9   1, 3, 7, 9, 13, 17, 19
- 2.1   7, 9, 11, 12, 13, 20, 23
- 2.2   3, 6, 9a-d, 13, 15, 17, 31, 32, 21, 22, 24
- 2.3   11, 15, 16, 18, 19, 21, 27, 33
- 2.4   3, 4, 5, 21ac, 22ab
- 2.8   3, 4, 5, 8, 9, 13, 17, 19, 21ac, 22ab, 23, 25
- 2.9   1, 3, 5, 13, 9, 15, 16, 17cd, 19, 20, 21, 23
- 3.1   7, 9, 11, 13, 19, 20, 21
- 3.2   11, 15, 17, 19, 21, 23, 28, 29, 34
- 3.3   21, 23, 27, 28, 32
- 4.1   1, 4, 11, 15, 16
- 4.2   7, 9, 11, 13, 25, 26
- 4.3   1, 3, 5, 15, 19, 21abcd, 22ab
- 4.4   7, 9, 11, 12
- 5.1   3, 5, 14, 15, 17, 21, 22abd, 25
- 5.2   5, 13, 15, 18, 19
- 5.3   1, 7, 15, 17, 5, 22, 23, 25
- 5.4   11, 12, 13, 15
- 5.5   13, 15
- 6.1   5, 7, 12
- 6.2   1, 5, 11, 13, 15
- 6.3   3, 5, 7, 11
- 6.4   3, 5, 7, 9, 11