

Syllabus for MA 565 - Linear Algebra I (Fall 2014)

Time and Place: 12:00 - 12:50 pm MWF, RGAN 207.

Instructor: Uwe Nagel, POT 763, 257-6793, uwe.nagel@uky.edu and www.ms.uky.edu/~uwenagel.

Office Hours: 1:00 - 1:50 pm MWF, or by appointment. You can also consult me by e-mail.

Exams: Midterm exam (RGAN 207, Oct 17 at 12:00 - 12:50 pm)
Final exam (RGAN 207, Dec 17, 10:30 - 12:30 am)

Textbook: Script “Linear Algebra” by David B. Leep.

Material: The central objects of linear algebra are vector spaces and linear maps. The course will introduce the tools and concepts needed. In particular, several types of vector spaces and normal forms of linear maps will be discussed.

Ideas, methods, and the language developed in linear algebra are widely used in all areas of mathematics and most other sciences.

LITERATURE

- (1) D. B. Leep: Linear Algebra, available in the UK book store.
- (2) K. Hoffman and R. Kunze: Linear Algebra (2nd Edition), Prentice Hall 1971
- (3) S. Roman: Advanced Linear Algebra (3rd Edition), Springer 2007
- (4) S. Lang: Linear Algebra (UTM, 3rd Edition), Springer 2004

Homework: Homework problems will be assigned about every week. The assignments will be posted on blackboard at <https://elearning.uky.edu/>.

Grades: There are 300 total points in the course with 100 points earned on each of the two exams and 100 points for solutions of the homework problems.