MATH304 – Linear Algebra, Spring 2015
Section 503, TR 8:00 am - 9:15 am; Section 507: TR 11:10 am - 12:25 pm
Location: Section 503: BLOC (Blocker) 117; Section 507: BLOC (Blocker) 160

About your instructor:
Name: Paula Tretkoff
Office: BLOC (Blocker) 641E
E-mail: paulatretkoff@tamu.edu include MATH304 in title
Web page: http://www.math.tamu.edu/~ptretkoff/

Office Hours (in BLOC (Blocker) 641E)
Thursdays: 7:00 am to 7:45 am; AND 9:30 am to 10:30 am; AND 12:45 pm to 1:15 pm;
or by appointment.
Homework will usually be due on a Thursday by 1:15 pm (firm deadline), either in class
or during my office hours.
Occasionally, there will be extra office hours on a Wednesday.

Hall, ISBN-13: 978-0321962218. I will also give page and homework exercise numbers
recommended.

Departmental Course Website for MATH304
Go to: http://www.math.tamu.edu/courses, then click on “Listing by Course”, then click
on “MATH304”, then click on “Course Description and Schedule”.

Course Description:
MATH304, Linear Algebra, is a course for engineering, computer science, and mathematics
education majors. The equation of a line in two-dimensional real \((x, y)\)-space is often
written \(y = mx + b\). Here, \(x\) and \(y\) are the variables, which may vary, and \(m\) and \(b\) are the
coefficients, which are fixed or given in advance. In Linear Algebra, we consider equations,
and systems of equations, which generalize the equation of a line to arbitrary dimensions
(although many of our examples take place in dimension 2, 3 or 4). Such equations arise
naturally in many applications in science and engineering. The study of systems of linear
equations is facilitated by introducing matrices, which form an algebra. The emphasis in
this course will be on applications and problem solving, although some theory involving
simple proofs is required. Please consult the syllabus for more details.

Exams: There will be three in-class partial credit exams, and a multiple choice in-class
exam. There will be NO final exam at the official final exam time. All exams are closed
book with no calculator allowed. A tentative schedule for these exams is as follows. I
reserve the right to change the dates of the in-class exams as well as the particular selection
of topics from the syllabus to suit the needs of the class and my own commitments.

In-class Exam I: Thursday, February 12
In-class Exam II: Tuesday, March 24
In-class Exam III: Thursday, April 23
In-class Exam IV: Thursday, April 30.
There will be no exams after April 30, in particular none during the final exam period.
Weekly Homework Assignments: Each week, usually on Thursday, as of January 29, you will be assigned homework to be completed by the following Thursday. The homework will be due in class or during my office hours NO LATER THAN 1:15 pm ON THE DUE DATE. LATE HOMEWORK IS NOT ACCEPTED. This homework will be graded by a grader and returned to you in class on the Thursday after that (two weeks from assignment of homework to return of graded homework). Accordingly, I have office hours on a Thursday so as you can ask me questions before handing in the homework.

Grading Scheme: Final grades will be determined by 4 in-class exams, weekly homework, and attendance, as follows:
The first 3 in-class exams are each worth 20% (for an overall 60%) of your final grade. The homework counts for 15%. The lowest homework grade will be dropped. The fourth in-class exam is worth 15%. Attendance is worth 10% of the final grade and will be taken in each class as of January 27: up to 5 recorded absences will be ignored (that is, you can be absent as many as 5 times starting January 27 without losing points for attendance). The final grade for the course is determined as follows:
(No lower than A)= 90%-100%, (No lower than B)= 80%-89%,
(No lower than C)=70%-79%, (No lower than D)=60%-69%, F=0%-59%.
I may curve the grades as a function of the overall performance of the entire class.

Make-ups: Make-ups for major exams will be given only in case of an absence authorized under University Regulations. You will need a note from your doctor or your academic advisor. If you have trouble reaching me, leave a message with the MATH departmental secretaries (845-7554) and be sure to leave your phone number. You must, by leaving a written or phone message with the departmental secretaries, or by e-mailing me directly, request a make-up exam within 2 business days from the day of the exam you miss.

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ACADEMIC INTEGRITY STATEMENT: “An Aggie does not lie, cheat, or steal or tolerate those who do”. Copying work done by another, either in-class or out of class, and passing it off as one’s own, even with the permission of that person, is an act of scholastic dishonesty and will be prosecuted to the full extent allowed by University policy. Collaboration on assignments, either in-class or out-of-class, is forbidden unless permission to do so is granted by your instructor. Typing notes/formulas into your calculator is also considered cheating. For more information on university policies regarding scholastic dishonesty, see Honor Council Rules and Procedures at http://www.tamu.edu/aggiehonor

ADA POLICY STATEMENT: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Disability Services Office, in Room B118 of Cain Hall or call 845-1637. For more information, visit http://disability.tamu.edu
SYLLABUS FOR MATH304/503/507
Linear Algebra, Spring 2015

The syllabus for MATH304, Sections 503/507, Spring 2015 given below is closely modeled on the suggested syllabus on the departmental website. There are, however, differences in emphasis on certain topics and the sequence of topics is reordered. Additional topics may be added if time permits. Please note that the syllabus below is a guideline only, especially as regards the timetable. The timing of the topics, and some of the content, may vary as we go along, depending on what transpires in class.

SYLLABUS FOR MATH304/504:

Chapter and Section numbers refer to the textbook: Linear Algebra with Applications, Leon: §A.B refers to Chapter A, Section B.

- Week 1: Introductory remarks, §1.1; §1.2;
- Week 2: §1.3; §1.4;
- Week 3: §1.5; §2.1;
- Week 4: §2.2; EXAM I;
- Week 5: §6.1; §6.2;
- Week 6: §6.3; §3.1; §3.2;
- Week 7: §3.3; §3.4; §4.1; §4.2
- Week 8: Examples; Review;
- SPRING BREAK (March 16 to March 19, 2015)
- Week 9: EXAM II; §5.1;
- Week 10: §5.2; §5.3;
- Week 11: §5.4; §5.5;
- Week 12: §5.6; Examples
- Week 13: Review; EXAM III;
- Week 14: Review; EXAM IV.