

Numerical Analysis I

Math 575A

Section 001

Professor: **Leonid Kunyansky**
Office: Math 719
Office hours: see <http://www.math.arizona.edu/~leonk/>.
Tentatively:
Monday: **4:00-5:00** pm
Wednesday: **1:00-2:00** pm
Friday: **11:00-12:00** pm (MATH 575A only)
and tutoring in Math. East 145, Friday **12:00-1:00** pm

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Grading: Desire to Learn (D2L): <https://d2l.arizona.edu/>

Class meets each Tuesday and Thursday from 11:00 am to 12:15 pm at Math 501.

Attendance:

Students are expected to attend every scheduled class. It is the students responsibility to keep informed of any announcements, syllabus adjustments or policy changes made during classes.

Students who missed three classes without an officially documented excuse most likely will be dropped from the class.

Text:

Numerical Linear Algebra by Trefethen and Bau, SIAM Press. (This book can be bought directly from Society for Industrial and Applied Mathematics (SIAM) with a significant discount, if you a member of the SIAM).

You will need to have access to a computer with MATLAB on it. The University provides a free site license for students and faculty, available at <https://sitelicense.arizona.edu/matlab/index.php>. (You would have to download MATLAB from MathWorks and install it on your computer. Then you would obtain the license from the above link which will enable you to run the software).

Prerequisites:

MATH 475 or MATH 456. Besides that, students are expected to have a solid background in Linear Algebra, in Calculus and Ordinary Differential Equations. It is quite helpful to have some computer programming experience, especially in MATLAB.

Tests and Homeworks:

Homework will be assigned regularly, and will usually be due on Thursday. I may choose to grade only selected problems. No late homework will be accepted. There will be a midterm test (tentatively on **Thursday, October 23**), and the **final** on **Tuesday, December 16**, from 10:30 to 12:30 pm at the same room. In addition I there will be a couple of larger projects that are considered a part of the homework.

Grading:

The midterm will be worth 100 points, and the final will count for 200 points. At the end of the semester I will scale the homework so that the maximum grade is equal 300 points. The total grade will be determined by the following table

510 to 600	85% to 100%	A
450 to 509	75% to 85%	B
390 to 449	65% to 75%	C
330 to 389	55% to 65%	D

Academic integrity

Students are expected to strictly adhere to the Code of Academic integrity. In particular, any use of the **solutions to the homework problems** distributed to other students by instructors who taught this course in the past is **absolutely prohibited**. If such a violation takes place, I will initiate the due procedure as described in the Code of Academic Integrity, see <http://deanofstudents.arizona.edu/policiesandcodes>.

Students with disabilities

If you anticipate issues related to the format or requirements of this course, please meet with me to discuss ways to ensure your full participation in the course. If you determine that formal, disability-related accommodations are necessary, it is very important that you be registered with Disability Resources (621-3268; <http://drc.arizona.edu>). You should notify me of your eligibility for reasonable accommodations by Tuesday, September 2. Then we can plan how best to coordinate your accommodations.

Students withdrawing from the course

You may withdraw from the course with a deletion from your enrollment record through September 21 using UAccess.

You may withdraw with a grade of "W" or change to Audit through November 2.

The University allows withdraws after November 2, but only with the Dean's signature. Late withdraws are dealt with on a case by case basis, and requests for late withdraw without a valid reason may or may not be honored.

Incompletes

The grade of I will be awarded if all of the following conditions are met:

1. The student has completed all but a small portion of the required work.
2. The student has scored at least 50
3. The student has a valid reason for not completing the course on time.
4. The student agrees to make up the material in a short period of time.
5. The student asks for the incomplete before grades are due (48 hours after the final.)

This syllabus is tentative and can be changed at any time at the instructor's discretion.