SYLLABUS FOR MATH 2552: Differential equations

- TEACHER: Heinrich Matzinger. E-mail: matzi@math.gatech.edu

- WHEN: TBA

- Recitation TBA

- OFFICE HOURS: TBA

- TEXT BOOK: Differential Equations: An Introduction to Modern Methods & Applications, by James R. Brannan and William E. Boyce (Third edition); John Wiley and Sons, Inc.

- FINAL GRADE: consists of 60% of the work during semester and 40% final

- MIDTERMS: There will be at least four mid-terms (quizes). Tentative dates: TBA

- FINAL EXAM: consists mainly of problems like in the midterms, homeworks and proofs from text book.

- Matzinger will communicate with you by Canvas announcements.

- MIDTERMS: There will be three to four mid-terms. Tentative dates: TBA

- HOMEWORKS: will be pass or fail but will not influence the final grade.

- FINAL EXAM: consists mainly of problems like in the midterms, homeworks and a few select proofs from text book, which Matzinger will give a list of which to learn.

- Matzinger will communicate with you by Canvas-announcements.

- Final instructional days are scheduled TBA

- Schedule of final exam is non-negotiable

- Exams can not be rescheduled for personal reasons (travel), but only for medical or major personal issues.

COURSE DESCRIPTION:

Introduction, linear equations, and Euler's method 1.1-1.4
First order differential equations and systems of two first order equations 2.1-2.7; 3.1-3.7
Systems of n first order equations; Nonlinear equations and stability 6.1-6.7; 7.1-7.6
Second order linear equations; Laplace transform methods 4.1-4.7; 5.1-5.9