

MATH 448/548 (CPT S 430/530)

Numerical Analysis

Fall 2018

Tuesday, Thursday 10:35am –11:50am Wegner G1

INSTRUCTOR: V.S. Mano Manoranjan

OFFICE: Neill Hall 231

OFFICE HOURS: Tuesday, Thursday 9:00am –10:15am

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TEXT BOOK: *Numerical Analysis* (Third Edition), American
Mathematical Society

David Kincaid and Ward Cheney

OUTLINE: The purpose of this course is to introduce numerical methods for mathematical problems found in science and engineering. The main topics that will be covered are,

- Numerical solutions of ordinary differential equations
- Direct and iterative methods for solving linear systems
- Numerical solutions for partial differential equations

GRADING: The course grade will be based on

- Assignments – 50% (Late assignments will not be accepted or graded)
- Two mid-term exams – 15% each
- Comprehensive final exam – 20%

If you are enrolled in MATH 548 or CPT S 530 you must complete an individual project (to be arranged with the instructor). This will constitute half of your Assignments Grade, i.e. 25% of the course grade.

Students with Disabilities

Reasonable accommodations are available for students with a documented disability. If you have a disability and need accommodations to fully participate in this class, please either visit or call the Access Center (Washington Building 217; 509-335-3417) to schedule an appointment with an Access Advisor. All accommodations **MUST** be approved through the Access Center.

WSU Safety Measures

Classroom and campus safety are of paramount importance at Washington State University and are the shared responsibility of the entire campus population. WSU urges students to follow the “Alert, Assess, Act” protocol for all types of emergencies and the “Run, Hide, Fight” for an active shooter incident (URL below). Remain ALERT (through direct observation or emergency notification), ASSESS your specific situation and ACT in the most appropriate way to assure your own safety (and the safety of others if you are able). Please sign up for emergency alerts on your account at MyWSU. For more information on this subject, campus safety and related topics, please view the FBI’s “Run, Hide, Fight video (<https://oem.wsu.edu/emergency-procedures/active-shooter/>) and visit the WSU safety portal (<https://oem.wsu.edu/about-us/>).

Academic Integrity

You are encouraged to work with your classmates on assignments. However, each student must turn in original work. No copying will be accepted. Students who violate WSU’s Standards of Conduct for Students will receive an F as a final grade in this course, will not have the option to withdraw from the course and will be reported to the Office of the Dean of Students. Cheating is defined in the Standards for Student Conduct WAC 504-26-010(3). It is strongly suggested that you read and understand these definitions. <https://conduct.wsu.edu>.