

Spring 2015

GRADUATE COURSE ANNOUNCEMENT

<i>Course title</i>	Numerical Analysis
<i>Course number</i>	MAP 6407
<i>Schedule, Room</i>	MWF 8 , Lit 207
<i>Instructor</i>	Maia Martcheva maia@ufl.edu http://people.clas.ufl.edu/maia
<i>Main themes</i>	Numerical Methods

Syllabus:

- (1) Root finding methods.
- (2) Interpolation.
- (3) Approximation theory.
- (4) Numerical differentiation and integration.
- (5) Numerical solutions of ODEs.

Prerequisites: No graduate prerequisites. MATLAB skills.

Requirements:

- (1) Optional exams will be scheduled if requested.
- (2) There will be homework assigned after each chapter.
- (3) Students may be expected to make presentation on computer implementation of the methods taught in class.
- (4) Students are expected to attend classes.

Grading: Grades will be based on:

- (1) **Homeworks:** Each homework will be 5 points per problem. Total will depend on the number of problems in the homework. All problems will be graded. The lowest homework grade will be dropped from the total. Late homeworks will not be accepted.
- (2) **Presentation:** Presentation will only affect your grade if you are a borderline case.
- (3) **Attendance:** Attendance will only affect your grade if you miss too many classes or your grade is borderline.

Computation of the grades will be explained in class.