

Spring 2018

GRADUATE COURSE ANNOUNCEMENT

<i>Course title</i>	Numerical Analysis
<i>Course number</i>	MAP 6407
<i>Schedule, Room</i>	MWF 7 , Lit 235
<i>Instructor</i>	Maia Martcheva maia@ufl.edu http://people.clas.ufl.edu/maia
<i>Main themes</i>	Numerical Methods

Goal: To obtain basic knowledge of 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) There will be homework assigned after each chapter.
- (2) Students **may** be expected to make presentation on computer implementation of the methods taught in class.
- (3) 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) **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.