Approximation Techniques (MAP 6445) Fall 2017

Class information and policies

Instructor: Dr. Ram N. Mohapatra

Office: MSB 412

Email: ram.mohapatra@ucf.edu Telephone: (407) 823-5080

Class times: MW 9:00 AM to 10:20 AM

Office Hours: MW 10:30 AM to 11:30, TR 1:00 PM to 2:00 PM, Sat 8:00-9:00 AM or by

appointment

Text Book: "Approximation Theory and Approximation Practice" by Lloyd N. Trefethen, SIAM

2013 (ISBN: 978-1-611972-39-9)

Prerequisites: MAA4227, MAA and MAA 5210, or Consent of the instructor

Catalogue Description: Normed linear spaces, Weierstrass approximation theorem, Tchebycheff

approximation by polynomials, Trigonometric approximation, orthogonal

expansions, and least square approximation.

Course Chapters from the Text: Selected topics from Chapters 1 through Chapter 27. We will also

supplement these from materials available in other sources.

Homework: Homework problems will be assigned from time to time and you will be required to

submit your solutions on or before they are due. Late submissions will not be

accepted. Homework will worth 20%.

Group projects: There will be two group projects which will worth 30%

Individual Project and paper: There will be one individual project and a paper covering a

technique of approximation. It will worth 30%

Final Examinations: Final Examination will be held on Wednesday, December 6, 2017 from 7:00

to 9:50 AM. It will worth 20%.

Blue books: In accordance with the Department of Mathematics policies, 8.5" x 11" (full size) blue

books totally void of writing will be required for each test and Final, for those who are appearing the test on main campus. Those who appear at the tests in testing centers away from main campus should bring plain white paper to the test site and

write in pen so that the scanned copies are legible to grade.

Makeup policy for Examinations: If you are going to be away for university related work, then

please give me the relevant documentation so that I can arrange for the makeup test.

Personal or family travel plan will not qualify for a makeup. If you have to miss a test for emergencies or sickness, please provide necessary document to the instructor as soon as possible. The Final Examination can't be given on any other day than the

scheduled day.

Attendance: It is my experience that those who attend classes take part in the deliberations and does

their homework regularly do well in their classes.

Letter grades: Your numerical score will be converted to letter grade by using the following:

A: 90-100%, B: 80-89%, C: 70-79%, D: 60 - 69%, F: 0-59%

If + and – grades are used to differentiate performance, your Final grade will be no less than what is mentioned above.

Emails: All pertinent emails will be answered within 24 hours on working days.

Cheating: I expect academic honesty from each of my students. Case of academic dishonesty will be referred to the student conduct board. For details on academic honesty, please see the Golden Rules available at http://www.goldenrule.sdes.ucf.edu.

Disability Accommodations: Anyone who needs accommodations for disability is requested to contact Student Disability Services, Student Resource Center, Room # 132 (Phone: (407) 823-2371. TTY/TDD only phone: (407) 823-2116). Until student disability service notifies the instructor, no special arrangement can be made.

First week activity: In accordance with the Financial aid requirements, you are required to answer Assignment zero before the end of the first week of classes or as soon as you join the class. Otherwise financial aid may be delayed.

Withdrawal deadline: Monday, October 30, 2017

Class ends on Saturday, December 2, 2017 Holidays: Labor Day: September 4, 2017 Veteran's Day: November 10, 2017

Thanks giving: November 23-to November 27, 2017
