

## MAT 522-01 Introduction to functional analysis

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Lecture: MW 2:00-3:15pm

Classroom: Petty 217

Prerequisite: Grade of C or better in MAT 395 or permission of instructor

Text: Introductory Functional Analysis with Applications by Erwin Kreyszig.

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Instructor: Dr. Maya Chhetri

Office: 125 Petty Science Building

E-mail: maya@uncg.edu Feel

Office hours: MW 3:30pm-5:00pm and/or by appointment. I usually keep my door open, so feel free to walk-in.

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Course Objective: We will cover the following topics: Metric Spaces, Normed Space, Banach Space, Inner product Space, Hilbert Space, Fundamental Theorems of Normed and Banach Spaces. We will discuss some applications of these concepts. *Any change in the syllabus will be discussed in the class.*

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Tests/Home works/Projects: There will be three in-class tests, weekly homework assignments and a comprehensive final exam.

Grading Policy:

Test 1 = 17% (September 9 - tentatively)

Test 2 = 17% (October 9 - tentatively)

Test 3 = 17% (November 20 - tentatively)

Final exam = 29% (Monday, December 9, 3:30pm-6:30pm)

Homework = 20%

Grading Scale:

100-99 = A+ (only for undergraduate students), 98-93=A, 92-90 =A-

89-87 = B+, 86-83=B, 82-80=B-

79-77=C+, 76-73=B, 72-70=C-

69-67=D+, 66-63=D, 62-60=D-

Below 59 =F

**Academic Integrity Policy:** The UNCG Academic Integrity Policy applies to all your work for which you receive grade.