1. GOAL
The goal of this course is to achieve a firm understanding of the basic concepts of Analysis. After reviewing a few notions on proofs, quantifiers, set theory and other basic mathematical tools and vocabularies, we will start by constructing the Real Line by making sure that it has no holes, i.e., that it is complete. Then we will look at the topology of the real line, continuous functions, derivation, and integration. Students are encouraged to work on problems on their own, as it is very likely to be the only manner in which to achieve an adequate comprehension of the way of analysis.

2. EVALUATION
Students will have about six assignments to hand in. There will be two tests and one final exam covering everything seen in class.

Assignments = 40%, Test #1 = 15%, Test #2 = 15%, Final = 30%.

Assignments must have a cover sheet, be clean and well written on single-sided pages. Each page should have your name, the date, and the full statement of the problem, with each problem on a separate page. Electronic submissions are encouraged.

3. BOOK
We will be using the book The Way of Analysis, by Robert S. Strichartz (Jones & Bartlett). The topics covered in class correspond to Chapters 1-6.