SYLLABUS FOR MA 442

The text is *Mathematical Analysis*, Volumes I and II, by Elias Zakon, available at
`http://www.trillia.com`.

The material from Chapter 1, Chapter 2, and the first 10 sections of Chapter 3 of the text are condensed from *Basic Concepts of Mathematics* by the same author, also available at that web site. You can review that book if you would like a more expanded introduction to the material.

We assume that students will be more-or-less familiar from MA 440 with the material from Chapters 1 and 2, as well as with the single-variable calculus in Chapter 5, although we will recall definitions and likely give some homework for review.

(1) Chapter 3.

   (1) Sections 1–3.
   (2) Section 9.
   (3) Section 10.
   (4) Section 11.
   (5) Section 12.
   (6) Section 13.
   (7) Section 14.
   (8) Section 15.
   (9) Section 16.
   (10) Section 17.

(2) Chapter 4.

   (1) Section 1.
   (2) Section 2.
   (3) Section 3.
   (4) Section 4.
   (5) Section 5.
   (6) Section 6.
   (7) Section 8.
   (8) Section 9.
   (9) Section 10.
   (10) Section 12.
   (11) Section 13.

(3) Chapter 6.

   (1) Section 1.
   (2) Section 2.
   (3) Section 3.
   (4) Section 4.
   (5) Section 5.
   (6) Section 6.
   (7) Section 7.
   (8) Section 9 (maybe).
   (9) Section 10 (maybe).