

Math 3441/3521
MWF 12:30-1:30
PSCI 123

ANALYSIS
Syllabus

Fall 1995

Instructor: **Dr. Art Duval**

office: **Bell Hall 303**

phone: **747-6846**/office (24hrs./day; if I'm not in, please leave a message)
584-7792/home (9am-9pm only, please)

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Office hours: **Mon, Wed 2–3; Tue, Thu 11:30–12:30**. Please feel free to come by any time during scheduled office hours. You are welcome to come at other times, but in that case, you might want to make an appointment, just to make sure that I will be there then. You can make an appointment simply by talking to me before or after class, or by calling me at my office or at home.

Textbook: **Marsden & Hoffman, Elementary Classical Analysis, 2nd ed., Chs. 1–5**

The course will cover the theory of functions on metric spaces (including topology of metric spaces and continuity), numerical series, and uniform convergence.

Prerequisites: You should be thoroughly familiar with the material in a first (undergraduate) Analysis course (Math 3341 at UTEP). This material can be found, *e.g.*, in Belding & Mitchell, *Foundations of Analysis*, §§1.1–4.2, or in Gaughan, *Introduction to Analysis*, §§0–5.

Graduate or Undergraduate?: This is a mixed course with undergraduates (who are technically enrolled in Math 3441) and graduate students (who are technically enrolled in Math 3521). In accordance with University policy, graduate students will have to complete some extra problems on homework and tests.

GRADES:

Homework (30%) Homework will be assigned weekly (with exceptions announced in class). Assignments will be due at the *beginning* of class on Wednesdays. If you cannot make it to class, have someone else bring it to class for you. No late homeworks! (Incomplete homeworks *will* be accepted, though.) The lowest score will be dropped.

You are encouraged to work together on your homework, but write up solutions by yourself. Some of the assignments might be group assignments, where the group turns in one paper and everyone in the group gets the same grade.

Midterm (30%) There will be an in-class midterm on

Fri 13 Oct.

Final (40%) comprehensive

Wed 13 Dec., 1:00–3:45 p.m.

Drop policy: The deadline for student initiated drops with an automatic W is Fri. Oct. 6. From then until Fri. Nov. 17, you can drop the course by consulting me. Through Mon. Oct. 16 (when the midterm is returned), I will give an automatic W. After that time, to drop with a W requires a passing grade on the midterm, but I will also drop you with a W, even if you failed the midterm, as long as you talk to me about your situation after the midterm.