MATH 5318/5319: Intermediate Analysis
Section 02, MWF 2-4, MA 010.

Course Information:

Instructor:	Chris Monico
Email:	c.monico@ttu.edu
Office:	MA-252
Office Hours:	, or by appointment.
Required Text:	"Principles of Mathematical Analysis" by Walter Rudin, Third Edition.

Course outline/Important Dates: We will cover up to and including Chapter 10 of the text, perhaps omitting the occasional section.

Exam 1	Friday, 2/2
Exam 2	Friday, 3/2
Last day to drop a course	Wednesday, 3/21
Exam 3	Friday, 4/6
Last day of classes	Tuesday, 5/1
Final Exam	Saturday, 5/5 4:30–7:00

Attendance: Class attendance is *mandatory*. It is assumed that you will attend, so I will not waste your time by taking attendance. However, keep in mind that it will be decidedly difficult for you to pass this course if you do not attend. If you arrive late to class, enter quietly. If you miss a class, it is your responsibility to find out what you missed (assignments, notes,...). If you are absent for an exam, you will be permitted to make it up *if and only if* you are absent for one of the following reasons:

- You are out of town performing duties on behalf of the university (i.e., athletics). Advance notification is required.

- Religious holiday (see below).

- **Severe** illness, documented by a physician.

- Death in the family.

- Other extenuating circumstances, at the instructor's discretion.

Expected Learning Outcomes Upon completion of these courses students should master concepts and theories of single and multi variable calculus, which include: sets, real number system, formal definition of limits of sequences, Cauchy sequences, epsilon-delta definition of limits of functions, continuous functions, differentiation, mean value theorems, Taylor's Theorem, Riemann integrals, fundamental theorems of calculus, infinite series, sequences and series of functions, linear transformation and differentiation of multivariate functions, inverse and implicit function theorems, vector calculus, and Green's, Stokes', and divergence theorems.

Assessment of learning outcomes The expected learning outcomes for the course will be assessed through scheduled exams and homework assignments. Homework will be assigned regularly (probably every class meeting) and collected weekly. Your final grades in these courses will be determined by the components and grading scale below.

Grade components 5318

Homework:	40%
Exam 1:	30%
Exam 2:	30%

Grade components 5319

Homework:	40%
Exam 3:	30%
Final Exam:	30%

Grade Scale

90–100%	A
80–89%	B
65–79%	C
55–64%	D
0–54%	F

ADA Accommodation: Any student who, because of a disability, may require some special arrangements in order to meet course requirements should contact the instructor as soon as possible to make such accommodations as may be necessary. Student should present appropriate verification from AccessTECH. No requirement exists that accommodations be made prior to completion of this approved university procedure.

Religious Holy Day Observance A student who is absent from classes for the observance of a religious holy day will be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. Notification must be made in writing and delivered in person no later than the 15th class day of the semester.