Math 375 Modern Analysis Block 1 2007-08 Tinsley

Text: Primer of Modern Analysis by Smith

Class Meetings: 9:00 AM - noon daily
1:30 - 2:30 PM T and R

Instructor: Fred Tinsley, Tutt Science 206G; Ext 6562

Office Hours: 8:00 – 8:45 AM daily; 1:30 - 3:30 PM M,W; 1:30 - 2:30 PM F; by appointment

Grades: Your grade will be a function of class participation, daily work and exams.

Honor Code: I encourage you to work together unless otherwise specified. I will give more details with each exercise.

Syllabus:

Day	Topic	Section	Events
M	Introduction; derivatives	1.1, 7.1	PM class
T	ε-δ derivatives; absolute values	1.2, 7.2	Problem Session
W	Physics, limits	1.4, 2.1, 2.2	
R	Continuity, metrics	2.4, 2.6, 7.3	Problem Session
F	Uniform Continuity, LUB's	3.1-3.2	
M	Uniform continuity, integrals as areas	3.2, 4.1	
T	Formal Riemann sums	4.2-4.3	Problem Session
W	Function spaces	5.1, 7.4	
R	Review		Problem Session
F	Midterm Exam		
M	Latex Lab		
T	Taylor's Integral Formula; sequences and series	6.1-6.2	Problem Session
W	Cauchy sequences and completeness	6.3, 7.3	
R	Uniform convergence	6.5, 7.4	Problem Session
F	Equivalent metrics, open and closed sets	7.5-7.6	
M	Connectedness and compactness; subsequences	7.7-7.9	
T	Odds and ends; problem session		
W	Final exam		