

ATMS 420X001: APPLIED CLIMATOLOGY
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FALL SEMESTER, 2007: M & W, 11:25 AM – 12:40 PM, ROBINSON HALL 237

DATE**TOPICS**

AUG 20/AUG 22	Exercise # 1 & Course Introduction & Internet Search Exercise
AUG 27/AUG 29	Exercise # 2: Climatological Summaries & Introduction to Excel
SEP 03	Labor Day Holiday
SEP 05	Exercise # 3: Regression Analysis
SEP 10/SEP 12	Exercise # 4: Freeze Risk Statistics
SEP 17/SEP 19	Exercise # 5: Creation of an AVL Winter Temp. Time Series 1889-2006
SEP 24/SEP 26	Exercise # 6: Contingency Tables & Persistence
OCT 01/	EXAM #1 (TAKE HOME DUE OCT 3, 2007)
/OCT 3	PowerPoint Presentation #1
	<<< FALL Break: Oct 6 – Oct 9 >>>
/OCT 10	Exercise # 7: Heating Fuel Consumption vs. HDD & Time Series Filtering
OCT 15/OCT 17	Exercise # 8: Geographic Information Systems
OCT 22/OCT 24	Exercise # 9: Climatic Water Vapor Budget
OCT 29/OCT 31	Exercise #10: Tropical Storm Climatology
NOV 05/NOV 07	Exercise #11: Urban Heat Islands
NOV 12/NOV 14	Exercise #12: Cycles
NOV 19/	PowerPoint Presentation #2
	<<< Thanksgiving Holiday: Nov.21-Nov.25 >>>
NOV26//NOV 28	Exercise #13: Wind Roses
DEC 03	Tour of National Climatic Data Center
/DEC 05	FINAL EXAM (TAKE HOME DUE DEC 10, 2007)

INSTRUCTOR: FRANK T. QUINLAN

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OFFICE HOURS: By Appointment Only

GRADING**LETTER GRADES ASSIGNED AS FOLLOWS**

EXERCISE AVERAGE	= 70%	A = 93 +	C+ = 77-79
PRESENTATION #1	= 5%	A- = 90-92	C = 73-76
EXAM #1	= 10%	B+ = 87-89	C- = 70-72
PRESENTATION #2	= 5%	B = 83-86	D+ = 67-69
FINAL EXAM	= 10%	B- = 80-82	D = 60-66
			F = < 60

COURSE OBJECTIVE: Climate is both a resource and a risk. It is a resource in that we can take advantage of favorable climate conditions in virtually all of our activities, from recreation to building dams. It is a risk in that we are subject to adverse conditions and events such as floods, severe storms, droughts and heat waves. Although we cannot control climate as we can other resources and risks, we can nevertheless manage our activities to maximize the benefits and minimize its costs, despite uncertainties. The objective of this course is to examine a variety of techniques for describing climate and providing climatological data in useful and meaningful ways and to determine the benefits that accrue through the prudent use of climatological information..

PowerPoint Presentation #1: Presentation of 10 or 15 slides that presents your winter of 1889/90 temperature time series and a few maps and/or facts about the climate of that winter.

Note: You must get approval for your location from InstructorPowerPoint

Presentation #1: Presentation of 10 or 15 slides that you consider best describe the current state of the global temperature climate & puts the recent warming (last two decades) in perspective.