UAM SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Course Syllabus –Spring 2012

Course Title: Meteorology Lab ESCI 1131
Co-requisite: ESCI 1123 Meteorology lecture or previously, successfully passed that course.
Credit Hours: 1
Faculty Website: www.uamont.edu/facultyweb/edson
Faculty Website: www.uamont.edu/facultyweb/sayyark

Instructor: Dr. Jim Edson
E-mail: edson@uamont.edu
Office: Museum #109
Office Phone: 870.460.1966
Office Hours: Hours: MWF 9:00 – 11:00; 2:00 – 3:00, TT 10:00 – 11:00; 3:00 – 4:00 (on-line/on-campus)

Instructor: Mrs. Kelley Sayyar
E-mail: sayyark@uamont.edu
Office: Room C-10 Science Center
Office Phone: 870.460.1365
Office Hours: MWF 10:00 am - 11:00 pm, or by appointment (on-line/on-campus)

MODE OF INSTRUCTION: Modified On-line instruction utilizing instructor e-mail and American Meteorological Society (AMS) website. Please note the format of the AMS provided material may not conform to Blackboard 9. Therefore, all assignments will be submitted to the appropriate instructor by e-mail. All exams will be taken on campus.

NETIQUETTE: "Cyberspeak" for etiquette on-line and in e-mail: manners, civility, and shared rules. The rules of netiquette apply to everyone who uses the internet or other electronic network.

REQUIRED COURSE TEXTS:

1. Weather Studies Investigations Manual, 2011- 2012 edition

TECHNOLOGY REQUIREMENTS:

Access to a working computer with Internet capability is required.
Operating System: Windows 2000, XP, Vista or Macintosh OS X

- Hardware: 256 MB of RAM, 1GB free hard disk space
- Microsoft Office 2007 recommended
- Internet Connection: Cable, DSL or Satellite Internet required. Dial-up connection is insufficient.
- Be sure you have an alternate location for conducting your class work. **Failure of your computer is not an excuse for missing assignments.** Suggestions: Campus Computer Labs, Parent's, Friend's or Relative's home computers.

UAM TECHNICAL SUPPORT INFORMATION:

- Issues with usernames, passwords, or UAM Email:
  Help Desk at helpdesk@uamont.edu or phone 870-460-1036. Open Monday-Friday, 8 a.m.-4:30 p.m.

- BLACKBOARD HELP:
  Help Desk at blackboard@uamont.edu or phone 870-460-1286

Fall and Spring		**Summer**	
Sunday	2:00PM - 10:00PM	Sunday	Closed
Monday - Thursday	8:00AM - 10:00PM	Monday - Friday	8:00AM - 4:30PM
Friday	8:00AM - 4:30PM	Saturday	Closed
Saturday	1:00PM - 4:00PM		

COURSE DESCRIPTION AND OBJECTIVES:

The overall goal of this course is to introduce the vast subject of meteorology in a manner, and with a philosophy, that will show that meteorology is an integrated discipline involving processes and response to those processes known as products.

By the time the student completes this course he/she should be able to:

1. Interpret the nature of changes in the Earth's climate, weather and seasons.
2. Access data from weather instruments.
3. Read and construct weather maps.

COURSE PROCEDURES AND EXPECTATIONS:

1. Computer Skills: You must know how to use and be comfortable with a computer and the internet before you attempt this course. All of our course materials are delivered through various web sites. Use of a computer to obtain and read the material is essential to your success in the course. You should be comfortable with and familiar with the following:

a. Web browsers; internet Explorer, Mozilla, Netscape .
b. Sending and receiving e-mail using your UAM email account.
c. Word processing program, such as MS Word, Word Perfect.
d. Basic folder/file management, i.e. saving, moving, copying and pasting files
e. You may also need to troubleshoot software and hardware problems. Above all, you will need patience: patience with your computer, patience with yourself and patience with your instructor. Patience starts by taking a deep breath, so if you are having technical problems, take a deep breath first. Then slowly, methodically and patiently take steps to eliminate the source(s) of the problems. If you don't have this knowledge, make sure you know someone who does.

GRADES AND EVALUATION:

1. There will be three (3) 200-point, non-comprehensive tests given during the semester for a total of 600 points. The third exam will be the final.

2. All tests will be taken on-campus. You must bring a valid UAM ID for admission. The test dates are listed in the schedule below. They will be at 5:00 pm in room C-18 or C-19 in the Science Center.

3. During the semester you will attempt twelve (12) A investigations and twelve (12) B investigations for a total of 24 lab investigations. Each investigation will be worth 10 points. Scores from the 10 best A and the 10 best B investigations attempted will be counted for a possible 200 points.

4. Grades will be determined based on the following scale:

A	B	C	D	F
89.5-100% (716-800 pts)	**79.5-89.4% (636-715 pts)**	**69.5-79.4% (556-635 pts)**	**59.5-69.4% (476-555 pts)**	**0-59.4% (0-475 pts)**

Code numbers will be used for posting grades. You have the right not to have your grades posted. Please let us know if you wish not to have your grades posted.

ONLINE INVESTIGATIONS:

1. Submitting assignments:
   a. The Weather Studies Manual Investigations and Applications A and B are to be answered on the Investigation answer sheets that are available only from the AMS Weather Website http://www.ametsoc.org/amsedu/login.cfm
   b. The supplemental online Current Weather Studies questions are posted on the AMS website by about noon Eastern Time each Monday (A) and Wednesday (B) for the dates listed on the schedule below.
   c. On the Investigations Manual answer sheets, delete the incorrect answer(s) on the multiple choice questions.
   d. These two answer sheets may be sent as email text or as an attachment to your instructor by 11:59 pm on the due date listed below. No late assignments will be accepted for any reason.
   e. Drawings do not need to be sent.
2. Additional Information:
   a. Please put your NAME and COURSE ID as the first line of all e-mails.
   b. Please indicate a SUBJECT for your e-mail (like "Help", "Chapter 1 Assignment", question about exam", etc). E-mails without a name or subject will not be answered.
   c. Copy and paste your assignment/message into the body of an e-mail, or as attachments to your e-mail.
   d. Please use upper- and lower-case type. All lower-case or upper-case letters are difficult to read.
   e. Use your spell checker and proof your work.
   f. Use 12 point type size, and Times Roman, Arial, or Courier fonts.
   g. Assignments are due by 11:59 pm on the due date listed below. No late assignments will be accepted.

There will be an orientation meeting on Thursday, January 19th at 5:00 pm in room C-18 of the Science Center.

1. Assignment schedule:

Week of	Current Weather Studies A (Posted about Monday noon ET)	Current Weather Studies B (Posted about Wednesday noon ET)	Due Dates
Jan 16	**Preview** **1A** Jan 16: Air Pressure and Wind **Orientation Meeting- January 19th**	**Preview** **1B** Jan 18: Surface Air Pressure Patterns	**Preview**
Jan 23	**1A** Jan 23: Air Pressure and Wind	**1B** Jan 25: Surface Air Pressure Patterns	**Jan 29**
Jan 30	**2A** Jan 30: Surface Weather Maps	**2B** Feb 01: The Atmosphere in the Vertical	**Feb 05**
Feb 06	3**A** Feb 06: Weather Satellite Imagery	**3B** Feb 08: Sunlight Throughout the Year	**Feb 12**
Feb 13	**4A** Feb 13: Temperature and Air Mass Advection	**4B** Feb 15: Heating Degree- Days and Wind Chill	**Feb 19**
Feb 20	**5A** Feb 20: Air Pressure Change **Lab Exam #1 - February 23**	**5B** Feb 22: Atmospheric Pressure in the Vertical	**Feb 26**
Feb 27	**6A** Feb 27: Clouds, Temperature, and Air Pressure	**6B** Feb 29: Rising and Sinking Air	**Mar 04**
Mar 05	**Break**	----------	-------
Mar 12	**7A** Mar 12: Precipitation Patterns	**7B** Mar 14: Doppler Radar	**Mar 18**
Mar 19	**8A** Mar 19: Surface Weather Maps and Forces	**8B** Mar 21: Upper-Air Weather Maps	**Mar 25**
Mar 26	**9A** Mar 26: Westerlies and the Jet Stream **Lab Exam #2 - March 29**	**9B** Mar 28: El Niño!	**Apr 01**
Apr 02	**10A** Apr 02: The Extra-Tropical Cyclone	**10B** Apr 04: Extra-Tropical Cyclone Track Weather	**Apr 08**
Apr 09	**11A** Apr 09: Thunderstorms	**11B** Apr 11: Tornadoes	**Apr 15**
Apr 16	**12A** Apr 16: Hurricanes **Final Lab Exam #3 - April 26**	**12B** Apr 18: Hurricane Wind Speeds and Pressure Changes	**Apr 22**

INSTRUCTOR FEEDBACK SCHEDULE:

Typically, you will receive an e-mail within 24 hours or less. If you do not receive a return message, please send your e-mail again. **Don't wait days for a response.**

ACADEMIC HONESTY:

1. Cheating: Students shall not give, receive, offer, or solicit information on examinations, quizzes, etc. This includes but is not limited to the following classes of dishonesty:

a. Copying from another student's paper.

b. Use during the examination of prepared materials, notes, or texts other than those specifically permitted by the instructor.

c. Collaboration with another student during the examination.

d. Buying, selling, stealing, soliciting, or transmitting an examination or any material purported to be the unreleased contents of coming examinations or the use of any such material.

e. Substituting for another person during an examination or allowing such substitutions for oneself.

2. Collusion: Collusion is defined as obtaining from another party, without specific advance approval by the instructor, assistance in the production of work offered for credit, to the extent that the work reflects the ideas of the party consulted rather than those of the person whose name in on the work submitted.

3. Duplicity: To offer for credit identical or substantially unchanged work in two or more courses, without specific advanced approval of the instructors involved.

4. Plagiarism: To adopt and reproduce as one's own, to appropriate to one's use, and to incorporate in one's own work without acknowledgment the ideas or passages from the writings or works of others.

For any instance of academic dishonesty that is discovered by the instructor, whether the dishonesty is found to be cheating, collusion, duplicity, or plagiarism, the result for the student or students involved will be that the instructor will assign a grade of F for the examination or assignment involved. (See page 60 of the UAM catalog 2009-11 for further academic code violations.)

POLICY ON STUDENTS WITH DISABILITIES: It is the policy of the University of Arkansas-Monticello to accommodate individuals with disabilities pursuant to federal law and the University's commitment to equal educational opportunities. It is the responsibility of the student to inform the instructor of any necessary accommodations at the beginning of the course. Any student requiring accommodations should contact the Office of Special Student Services located in Harris Hall, Room 121, phone 870-460-1026; TDD 870-460-1726; or FAX 870-460-1926.

DATES TO REMEMBER:

January 11 (Wednesday): First day of classes (regular and first 8-week fast-track classes).
January 11-18 (Wednesday through Wednesday): Late registration. A $25 late registration fee will be assessed.
January 11-18 (Wednesday through Wednesday): Students may make schedule changes.
January 16 (Monday): Martin Luther King Holiday. All offices and classes closed.
January 18 (Wednesday): Last day to register or add spring classes.
February 24 (Friday): Deadline to apply for August and December graduation.
March 19-23 (Monday-Friday): Spring Break for faculty and students. All offices closed on March 23.
April 2 (Monday): Preregistration for summer and fall begins.
April 4 (Wednesday): Last day to drop with W in regular classes; not applicable to fast-track classes.
April 13 (Friday): Preregistration for summer and fall ends.
April 26 (Thursday): Last day to withdraw from class (regular and second 8-week fast-track classes).
May 1 (Tuesday): Last day of classes.
May 2-8 (Wednesday-Tuesday): Final exams.
May 11 (Friday): Commencement.

DISCLAIMER: This syllabus is tentative and a guide and the instructor reserves the right to make changes.