

**ATMS/LSIC 379 MOUNTAIN WEATHER Fall 2007**

**DESCRIPTION:** Mountain Weather is the subject of learning, and the learning processes include writing, synthesis, understanding, research, and presentation. This course is both writing intensive and information literacy intensive.

**INSTRUCTOR:** **Dr. Alex (Huo-Jin) Huang**, RBH 236B, Dept. of Atmospheric Sciences, UNCA  
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 Office Hours: M W F 11:15-11:45 pm; T Th 1 – 1:30 pm  
 (Or by appointment, but walk-in is always welcome)

**TEXT:** Various handouts to be distributed in class.

**REFERENCES:** **Mountain Meteorology (2000), and Mountain Weather and Climate (1992)**

**SCHEDULE:** 10:25 –11:15 pm, Monday, Wednesday, Friday, RBH 238.

**EXAMS:** Mid-term Essay exam: 10/17; Final Exam: 8-10:30 am, Monday, 12/10/2007.

**GRADING:** ~5 Essays (15%), One Essay exam (15%), two projects/presentations (30%, 15% each), one poster (10%), class participation (10%), and the final exam (20%)

**RADE SCALE (100%):** A ≥ 93: A-: 92.5-90; B+: 89.5-87; B: 86.5-83; B-: 82.5-80;  
 C+: 79.5-77; C: 76.5-73; C-: 72.5-70; D+: 69.5-67; D: 66.5-60 F: ≤ 59.5.

**SPECIAL REMARKS:** Class attendance is mandatory. You are solely responsible for the consequences due to your absence. No late essays or projects will be accepted. Exception may be granted for uncontrollable circumstances and medical reasons. You have to consult with the instructor at your earliest convenience for exceptions. A significant reduction of your score on your late assignments may be applied. Academic honesty is expected and enforced.

**\*\*Respect & Responsibility\*\*** Your determination and desire to learn is respected and appreciated.

**NOTE:** This syllabus is subject to any reasonable modifications by the instructor with the consent of students.

**COURSE OUTLINE**

<b>Week</b>	<b>Dates</b>	<b>Subject</b>	
1	8/20, 8/22	Introduction	(An essay: Why do you take this course?) (Interested in “Science and Humanities Conference”?)
1, 2	8/24, 8/27	Global Mountains	(Topography, video showing)
2	8/29, 8/31	Weather Elements	(Discussion of the project #1)
<b>3</b>	<b>9/3</b>	<b>Labor Day, No Class</b>	
3	9/5, 9/7	Weather Elements	(Draft of the project #1)
4	9/10	Temperature and Precipitation, Climograph	
<b>4</b>	<b>9/11</b>	<b>UNCA ACT Day</b>	
4	9/12	Mountain (Highland) Climate	(An essay: How am I doing so far?)
4, 5	9/14, 9/17	Writing Tools	(Format, content)
5	9/19	Presentation Tools	(MS PowerPoint, public speech)
<b>5, 6</b>	<b>9/21, 9/24</b>	<b>Preview of Project #1</b>	(People, culture and climate of mountains)
<b>6</b>	<b>9/26</b>	<b>Project #1 due</b>	
<b>6, 7</b>	<b>9/28, 10/1</b>	<b>Project #1 Presentations</b>	
7	10/3	Peer-review, Discussion	(An essay: Summary of Project #1)
<b>8</b>	<b>10/6-10/9</b>	<b>Fall Break</b>	
<b>9</b>	<b>10/15</b>	<b>Preview of Essay Exam</b>	(How weather affects mountain people)
<b>9</b>	<b>10/17</b>	<b>Essay Exam</b>	(“Science and Humanities Conference at UNCA”)
9, 10	10/19, 10/22	Local Circulation	(Mountain and valley winds, Santa Ana wind, Chinook)
10	10/24, 10/26	Northwesterly Flow	(Draft of the project #2)
11	10/29, 10/31	Cold Air Damming	(COMET learning module)
<b>11</b>	<b>11/2, 11/5</b>	<b>Preview of Project #2</b>	(Mountain impacts to the future global climate)
<b>12</b>	<b>11/7</b>	<b>Project #2 due</b>	
<b>12, 13</b>	<b>11/9, 11/12</b>	<b>Project #2 Presentations</b>	
13	11/14	Peer-review, Discussion	(An essay: Summary of Project #2)
13, 14	11/16, 11/19	Reading Assignments	
<b>14</b>	<b>11/21-11/25</b>	<b>Thanksgiving Holidays</b>	
<b>15</b>	<b>11/26</b>	<b>Preview of Posters</b>	(An essay: Conclusion)
<b>15</b>	<b>11/28</b>	<b>Poster due</b>	
<b>15, 16</b>	<b>11/30, 12/3</b>	<b>Poster Presentations, Peer-review/discussion</b>	
<b>16</b>	<b>12/4</b>	<b>Reading Day, No Class</b>	
17	12/10	Final Comprehensive Exam, 8 – 10:30 am, Monday	