EAS 120
Exam 3 Review
Chapters 8-9

Multiple Choice (Approximately 30-40 questions)
1. Read chapters 8-9 and review lecture notes chapters 8-9
2. General Atmospheric Circulation (3 Cell Model)
3. Semi-permanent pressure cells
4. Rossby waves (zonal vs. meridional flow)
5. Monsoons
6. Chinook, Santa Ana, and Katabatic winds
7. Land, Sea, Mountain, Valley breeze
8. El Nino, La Nina, and the Southern Oscillation
9. Air masses
10. Frontal Zones
11. Drylines

Fill in the Blank (Approximately 10 questions)
1. Vocabulary at the end of the chapters, bold and italicized terms in the textbook and notes, and terms taken off the notes

Short Answer / Essay (Approximately 3-5 questions)
1. Be able to recreate the 3-cell model depicting general atmospheric circulation. (Lab 10)
2. Be able to differentiate between Rossby wave troughs and ridges in terms of temperature, heights, shape, etc.
3. Explain how a sea breeze works and describe its migration inland as the day progresses.
4. Describe what happens when an El Nino forms in terms of the SOI, atmospheric pressure, precipitation, winds, ocean currents, and ocean temperatures. How is this different from normal conditions? (Lab 10)
5. Describe the weather changes when a cold front approaches and after it passes.
6. Describe the weather changes when a warm front approaches and after it passes.

Application Questions from Lab
1. Be able to answer questions concerning different types of air masses and their locations. (Lab 8)
2. Be able to complete matching exercises identifying the different frontal zones. (Lab 8)