EAS 120
Exam 4 Review
Chapters 10-12

**Multiple Choice** (Approximately 30-40 questions)
1. Read chapters 10-12 and review lecture notes chapters 10-12
2. Life cycle of a mid-latitude cyclone
3. Rossby Waves
4. Winter storm paths
5. Lightning formation
6. Lightning safety
7. Air mass thunderstorms
8. Severe Thunderstorms
9. Distribution of thunderstorms and tornadoes
10. Tornadoes
11. General hurricane characteristics
12. Hurricane structure and formation
13. Hurricane destruction

**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. Describe the life cycle of a mid-latitude cyclone
2. Explain the steps of a cloud to ground lightning strike
3. Be able to describe the steps of formation of an air mass thunderstorm.
4. Be able to list the characteristics that define a thunderstorm as severe.
5. Describe the formation of a squall line and how would it be recognizable on radar and satellite maps.
6. How are outflow boundaries formed, and what effect do they have on winds.
7. List the different names of tropical disturbances and the wind speeds necessary for classification.
8. Determine the names of hurricanes around the globe and which locations use each particular name.
9. What atmospheric weather variables are necessary for hurricanes to gain strength?

**Application Questions from Lab**
1. Be able to determine the current weather at distinct locations surrounding a mid-latitude cyclone. (Lab 11).