

EESB03H3 - Principles of Climatology

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Lecture Time: Wednesday 1 - 3 (SW 319)

Tutorial Times:

Wednesday 9 – 10, AC 334
Wednesday 10 – 11, AC 334
Wednesday 11 – 12, AC 334
Wednesday 3-4,

Required Text: *Meteorology Today*, 8th Edition by C. Donald Ahrens

This course gives a general introduction to meteorology and climatology. The first part of the course gives an introduction to atmospheric physics and the principles that create weather. The second part of the course applies these principles to real conditions. Meteorology topics include energy balance in the atmosphere, moisture and cloud development in the atmosphere, atmospheric dynamics, small and large scale circulations, midlatitude cyclones, and weather forecasting. Climatology topics include the interaction between the atmosphere and oceans over long time periods, climate classification, and the potential for climatic change.

Evaluation:

Midterm Test: 25%
Assignments: 24% (4 + 4 + 4 + 6 + 6)
Participation 6%
Final: 45%

Tentative Assignment Schedule

Assignment	Date Assigned	Date Due	Date Returned
1. Radiation	Jan. 23	Jan. 30	Feb. 6
2. Stability	Jan. 30	Feb. 6	Feb. 13
3. Dynamics	Feb. 6	Feb. 13	Feb. 27
4. Local Weather	Mar. 5	Mar. 19	Mar. 26
5. Midlatitude Cyclones	Mar. 19	Apr. 2	Exam