

DeAnza College
Physical Sciences, Mathematics & Engineering Division

Winter Quarter 2015

Meteorology 10: "Weather & Climate Processes"

Class times & Location: Section 04 (CRN 31627) 10:30-11:20 a.m. MTWThF

Room: S32

Instructor: Paul J. Olejniczak (Oles)

Office: S48A

Phone: 408-864-8676

Email: olejniczakpaul@deanza.edu

Office Hours: 9:30-1015 a.m. MTWThF

Text book: "Essentials of Meteorology" Most Recent Edition by C. Donald Ahrens,; Brooks/Cole Cengage Learning

Meteorology

Dept Web Page: olespaul.com

Course Description:

Meteorology 10 is a survey course, which provides students with an overview of the principals of the science of meteorology and climatology. Major themes include the origin, evolution and structure of Earth's atmosphere; a study of the major atmospheric variables that determine weather; and an examination of the objectives techniques used by meteorologists to forecast the weather. The course will also present an overview of climate science including the systems used to classify climate.

Lecture sessions will incorporate appropriate audiovisual materials and live Internet access to major meteorological databases to explore significant national weather events that occur during the quarter.

Evaluation:

A student's final grade will be based upon four (4), fifty (50) questions each, objective-type exams

including a comprehensive final examination. The lowest of the first three test scores will be dropped and the final grade will be a simple average of the remaining two (2) exams and the final exam. Sample exams from previous quarters are posted online.

The best way to prepare for an examination is to review the Chapter Study Questions and the practice tests that are provided on the course web site.

Make-up examinations will not be administered. A missed test – for any reason - will be counted as the student's one allowed dropped test. There will be no exceptions. Students missing two tests must withdraw before the final withdrawal date or receive an "F" grade for the class.

- o Last day to drop a class with no record of grade is Mon Jan 19
- o Last day to drop with a "W" is Fri Feb 27

Extra Credit:

Extra credit questions will be provided on each examination and will be drawn from material in instructional videos presented during class.

Extra credit assignments and projects will be also be offered during the quarter. All extra credit is optional.

Notes regarding examinations:

Scantron forms and #2 pencils are required for all examinations. It is the responsibility of the student to mark answers clearly and to fully erase mis-marked answers. Scantron forms will not be rescored. Graded Scantron forms should be retained by students as proof they have taken a test.

Letter Grades:

A	= 89% +
B	= 79% to 88%
C	= 69% to 78%
D	= 59% to 68%
F	= 0% to 58%

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Important Dates:

Jan 5	Mon	Classes begins
Jan 19	Mon	Holiday - No Class
Feb 02	Mon	Test 1 on Chapter 1, 2, 3 & 4
Feb 13 & 16		Holidays - No Class
Mar 02	Mon	Test 2 on Chapters 4,5,6, & 7
Mar 16	Mon	Test 3 on Chapters 8, 9, 10 & 11
Mar 27	Fri	Final Exam from 9:15-11:15 a.m.

Class Schedule: (Date indicates: "The Week of Monday...)

Jan 05	Mon	Orientation Chapter 1: "The Earth's Atmosphere" Special Audiovisuals, Demonstrations or Class Assignments: Coast Tele-Course Video Series: "The Origin of the Solar System"
Jan 12	Mon	Chapter 2: "Warming the Earth and the Atmosphere" Special Audiovisuals, Demonstrations or Class Assignments: Planetarium Demonstration: "The Seasons"
Jan 19	Mon	Holiday - No Class
Jan 20	Tue	Chapter 3: Air Temperature" Special Audiovisuals, Demonstrations or Class Assignments: NOVA Video: "What's Up with the Weather?" (The Issue of Global Warming)

Jan 26	Mon	<p>Chapter 4: "Humidity, Condensation & Clouds"</p> <p>Special Audiovisuals, Demonstrations or Class Assignments:</p> <p>Earth Science Video Library: "The Hydrologic Cycle – Water in Motion"</p> <p>Earth Science Video Library: "Reading the Clouds"</p> <p>Review for Test 1</p>
Feb 02	Mon	<p>Test 1 on Chapters 1,2,3, & 4</p> <p>Return and Review Test 1</p> <p>Chapter 5: "Cloud Development and Precipitation"</p> <p>Special Audiovisuals, Demonstrations or Class Assignments:</p> <p>NOVA Video: "Flood"</p>
Feb 09	Mon	<p>Chapter 6: "Air Pressure & Winds"</p> <p>Special Audiovisuals, Demonstrations or Class Assignments:</p> <p>Instructional Video: "Pressure & Winds"</p>
Feb 13 & 16	Fri/Mon	Holidays - No Class
Feb 17	Tue	<p>Chapter 7: "Atmospheric Circulation"</p> <p>Special Audiovisuals, Demonstrations or Class Assignments:</p> <p>NOVA Video: "Chasing El Nino"</p>
Feb 23	Mon	<p>Chapter 8: "Air Masses, Fronts and Mid-Latitude Cyclones"</p> <p>Review for Test 2</p> <p>Test 2 on Chapters 5, 6, 7 & 8</p> <p>Return & Review Test 2</p>

Chapter 9: "Weather Forecasting"

Special Audiovisuals, Demonstrations or Class Assignments:

NOVA Video: "Lightning"

Mar 02 Mon Chapter 10: "Thunderstorms and Tornadoes"

Special Audiovisuals, Demonstrations or Class Assignments:

Video: NOVA: "Deadliest Tornadoes"

Chapter 11: "Hurricanes and Typhoons"

Special Audiovisuals, Demonstrations or Class Assignments:

NOVA Video: "Katrina: Anatomy of a Disaster"

Mar 09 Mon Chapter 12: "Global Climate"

NOVA Video: "The Climate Puzzle"

Review for Test 3

Mar 16 Mon Test 3 on Chapters 9, 10, 11 & 12

Return and Review Test 3

Chapter 13: "The Earth's Changing Climate"

Mar 23 Mon Review for Final Examination

Mar 27 Fri Final Exam from 9:15 - 11:15 a.m.

Rules & Regulations:

Regular class attendance is required. Class attendance will be recorded each class period. Students missing three (3) consecutive classes without will be dropped from the class.

The use of cell phones or pagers is strictly forbidden during class unless prior arrangements have been made with the instructor.