

The Atmosphere (ESS5)

- **Course Time**

Lectures: Tuesdays & Thursdays 2:00-3:20, HSLH-100A

Discussions: Wednesday (12:00-12:50) and Fridays (11:00-11:50 and 1:00-1:50)

- **Text Book**

Understanding Weather & Climate (3rd or 4th edition) by E. Aguado and J. E. Burt.

- **Grade**

Homework (30%), Midterm (30%), Final (30%), Pop Quizzes (10%)

- **Homework**

No group answer; no email answers.

a 20% penalty per day for late homework

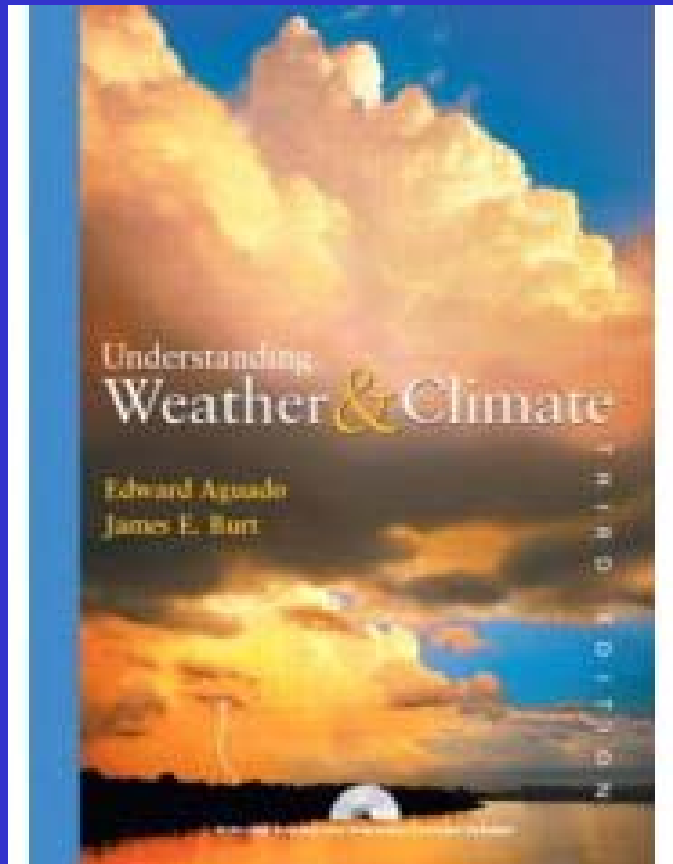
- **Discussion**

Review course material; answer homework problems; reviews for midterm and final

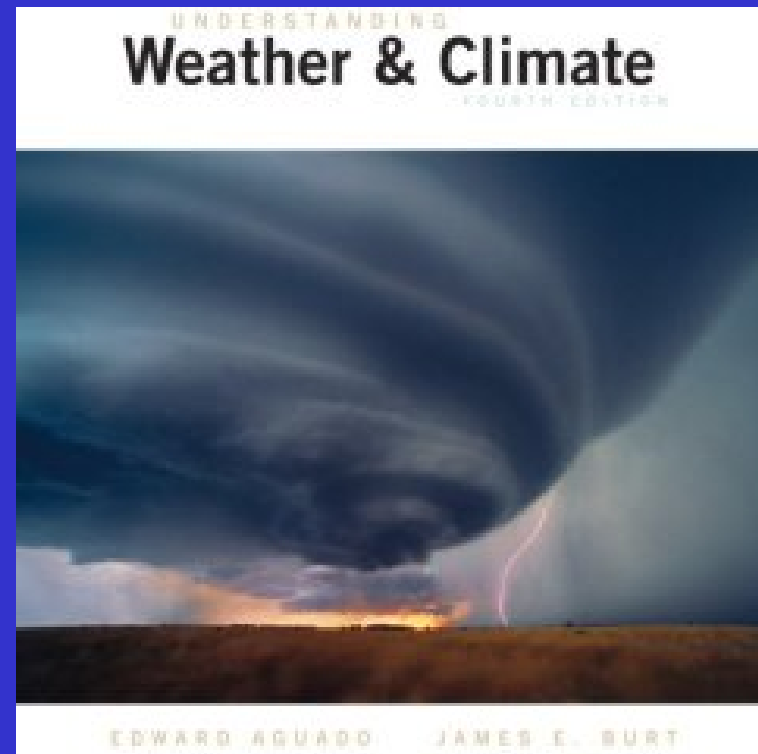


Textbook

3rd Edition



4th Edition



ESS5
Prof. Jin-Yi Yu

TA and Office Hour

TEACHING ASSISTANTS

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TA OFFICE HOURS (at Croul Hall Room# 3242A)

	Monday	Tuesday	Wednesday	Thursday	Friday
9:30-10:30				Qi Tang	
3:30-4:30			Angie Kao		
4:00-5:00		Min-Hui Lo			



Croul Hall / Earth System Science



ESS5
Prof. Jin-Yi Yu

Course Description

The atmosphere - introduces the fundamental properties of the atmosphere: thermal structure, mass distribution, and general circulation.

Weather - describes weather features in the atmosphere: mid-latitude storms, tropical hurricane, tornadoes, clouds, and precipitation.

Climate - looks into how the atmosphere interacts with oceans, land, ice, and human activities to determine the past and possible future climate changes.



Syllabus

<u>WEEK</u>	<u>DATE</u>	<u>TOPICS</u>	<u>CHAPTER</u>
Week 1	4/01	Composition and Structure of the Atmosphere	Ch.1
	4/03	Composition and Structure of the Atmosphere	Ch.1
Week 2	4/08	Solar Radiation & Seasons	Ch.2
	4/10	Energy Balance & Temperature	Ch.3
Week 3	4/15	Atmospheric Pressure & Wind	Ch.4
	4/17	Atmospheric Pressure & Wind	Ch.4
Week 4	4/22	Atmospheric Moisture	Ch.5
	4/24	Atmospheric Moisture	Ch.5
Week 5	4/29	Midterm Examination	Ch.1-5
	5/01	Movie on Global Warming	
Week 6	5/06	Cloud Development & Forms	Ch.6
	5/08	Precipitation Processes	Ch.7
Week 7	5/13	Global Atmosphere/Ocean Circulations	Ch.8
	5/15	El Niño & Climate Variability	Ch.8
Week 8	5/20	Air Masses & Fronts	Ch.9
	5/22	Mid-Latitude Cyclones	Ch.10
Week 9	5/27	Mid-Latitude Cyclones	Ch.10
	5/29	Lighting, Thunder & Tornadoes	Ch.11
Week 10	6/03	Tropical Storms and Hurricane	Ch.12
	6/05	Climate Changes	Ch.16
Week 11	6/12	Final Examination (1:30pm)	Ch.6-12+Ch.16

