

# METR 5233: Cloud and Precipitation Physics

## Syllabus

CLASS: Mon.-Wed.-Fri., 11:00-11:50,  
National Weather Center, Rm. 5720 (changed to 5600 starting from August 23, 2006)

### INSTRUCTOR:

Guifu Zhang, Associate Professor, School of Meteorology  
NWC Rm. 4620  
Fri. 2:00-4:00, or by appointment  
guzhang1@ou.edu  
(405) 325-3507

### TEXT BOOK:

Rogers and Yau: *A Short Course in Cloud Physics*, Third Edition

### REFERENCE BOOKS:

Pruppacher and Klett, *Microphysics of Clouds and Precipitation*  
Fleagle and Businger, *An Introduction to Atmospheric Physics*, Second Edition

### COURSE DESCRIPTION

This course is intended to introduce students to the physical states and processes of clouds and precipitation at slightly greater depth than the usual undergraduate course on the subjects. Radar and in-situ observations will be used in the class. Potential applications of cloud microphysics in model parameterization will be discussed.

### GRADES

Problem s: 50%

Midterm examination: 20%

Final examination: 30%