

METR 5233: Cloud and Precipitation Physics

Syllabus

CLASS: Mon.-Wed.-Fri., 12:00-12:50,
National Weather Center, Rm. 5600

INSTRUCTOR:

Guifu Zhang, Associate Professor, School of Meteorology
NWC Rm. 4620
Fri. 2:00-4:00, or by appointment
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(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 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

Homework problems: 40%

Midterm examination: 30%

Final examination: 30%