Office of Academic Affairs  
Tarleton State University  
July, 2002  

Master Course Syllabus Outline  

**Department:** Chemistry, Geosciences & Environ. Sci.  
**Course Prefix/Number:** E S 3303  

**Official Course Title:** Meteorology  

**Master Syllabus Approved by Department on:**  
_____ / _____ / _____  
month date year  

**I. Catalog Description** (50 words; brief synopsis of course content, emphases)  
A study of the Earth's atmosphere and the basic principles of weather analysis, climate and climatic controls, with emphasis on climatic effects on man. Theory reinforced by practical field experience. Prerequisites: GEOL 1054 or approval of department head. Lab fee $5. Course fee $10.  

**II. Prerequisites?**  
GEOL 1054.  

**III. Expanded Course Description (150 words; primary course content, intended student level and role(s) course is to play in the curriculum)**  
This is an upper-level course that is recommended for multiple support areas in the Geoscience program. It is intended for students majoring or minoring in Geoscience, and especially those within the support areas of Environmental Science, Earth Science and Teacher Certification 8-12. It is also taken by Biology majors for Teacher Certification. The course is an overview of atmospheric processes and an introduction to climatology. Topics covered include atmospheric composition and structure, planetary-, synoptic- and local atmospheric circulation patterns, thunderstorms, tornadoes, hurricanes, weather analysis and forecasting, pollution and climatology.  

**IV. Intended Student Learning Outcomes?** Required; knowledge outcomes (what students who successfully complete the course will be expected to know). Optional; skill outcomes (what students who successfully complete the course will be able to do). Optional; value outcomes (what students who successfully complete the course will value or appreciate).  

**Knowledge Outcomes.**  
The student should generally understand how meteorologists construct hypotheses and how they analyze and interpret weather data. The student should comprehend how weather influences human activities.
Value Outcomes.

Weather and climate are major factors in determining cultural characteristics in a region. This broadens the student's awareness, and hopefully assists them in understanding, and possibly better appreciating, other societies.

V. Unless otherwise stipulated in this master syllabus by the department, the following items are subject to faculty discretion as described in each faculty member's individual course outline/syllabus:

a) Course Requirements? (grading/evaluation procedures; class attendance policy; term papers, projects, field assignments; examinations; class participation, etc.).

Grading is based on the averages of several lecture tests and a final exam. Class attendance is important, but a student will not be penalized for not attending the lectures.

b) Required Text(s)?

A text is required.

c) Bibliography?

Department Head Signature/Date:

_________________________________________  __________/_____/_______
Signature  Date