

## METEOROLOGY

### Human Arts and Social Sciences Division

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<http://www.cabrillo.edu/programs>

### Meteorology

#### Program Description:

Meteorology is the branch of natural science which deals with the atmosphere and its interactions with the rest of the planet Earth. It is both an applied and theoretical science. Students who wish to major in the field should have a good understanding of mathematics, chemistry and physics. Career opportunities include researcher, teacher, government service, forecasting, and television and radio weathercaster. Some career positions do not require the B.S. or graduate degrees. Cabrillo does not offer an A.A. or A.S. Degree in Meteorology. Please see a counselor for advisement for transfer to any four-year institution.

#### Core Courses

MATH 5A	Analytic Geometry and Calculus I . . . . .	5
MATH 5B	Analytic Geometry and Calculus II . . . . .	5
MATH 5C	Analytic Geometry and Calculus III . . . . .	5
CHEM 1A	General Chemistry I . . . . .	5
PHYS 4A	Physics for Scientists and Engineers . . . . .	5
PHYS 4B	Physics for Scientists and Engineers . . . . .	5

#### Recommended

MATH 7	*Introduction to Differential Equations . . . . .	3
METEO 1	Elementary Meteorology . . . . .	3
METEO 1L	Meteorology Laboratory . . . . .	1

**Total Units** **37**

*\*Meteorology requires a course in differential equations. The transfer student may take a course in ordinary differential equations at the community college and request content credit upon transfer. Meteorology electives not required for transfer.*

## Meteorology Courses

### METEO 1

#### Elementary Meteorology

3 units; 3 hours Lecture

Recommended Preparation: Eligibility for ENGL 100 and READ 100; Eligibility for MATH 154.

Explores the composition, structure and motion of the atmosphere including: weather systems, clouds and precipitation, radiation, upper atmospheric phenomena, microclimates, meteorological instruments, and observations. May be offered in a Distance-Learning Format.

*Transfer Credit:* Transfers to CSU, UC.

### METEO 1L

#### Meteorology Laboratory

1 unit; 3 hours Laboratory

Prerequisite: METEO 1 or concurrent enrollment.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Emphasizes the nature and causes of weather using instruments and exercises.

*Transfer Credit:* Transfers to CSU, UC.