

# EARTH SCIENCE (ESC)

---

**ESC 172 – Earth Science Meteorology (NS) (3 credits)**

The constituents and structure of the atmosphere; meteorological elements; weather and climate; air masses; fronts and circulation of the atmosphere; instrumentation and map reading.

**ESC 174 – Earth Science: Physical Geology (NS) (3 credits)**

A study of the origin of the Earth, its structure, how it has changed in history, and the processes that caused the change. This course is intended for non-science majors and no prior knowledge of scientific principles or techniques is presumed of the student. Major topics include: study and classification of rocks and minerals, soil composition and formation, and seismic activity.

**ESC 175 – Earth Science: Solar System (NS) (3 credits)**

A descriptive introduction to the science of solar systems for both science and liberal arts majors. Celestial mechanics, Kepler's laws of planetary motion, artificial satellites, motion of earth and moon, and related topics. Description of the other planets, other elements of the solar system.

**ESC 176 – Earth Science: Stellar Astronomy (NS) (3 credits)**

A description of stars in the universe for both science and liberal arts majors. Stellar distance, motion, mass, size, magnitude, temperature and classification of stars, binary stars. Stellar evolution and earth, original and evolution of the universe, cosmology.