Department of Earth and Environmental Sciences

**RESEARCH AREAS**

**EARTH SCIENCE**
- Earth/Planetary Geochemistry
- Meteorites
- Isotope Geochemistry
- Environ. Geochemistry
- **Petroleum Science/Energy**
  - Reservoir Characterization
  - Paleobiology
  - Basin Analysis
- **Ancient Climates**
  - Ocean-Climate Interaction
  - Mass Extinctions
- **Rock Mechanics**
  - Earthquakes
  - Rock fracture

**ENVIRONMENTAL SCIENCE**
- Environmental Pollution
  - Contaminated Soils
  - Contaminated Water
  - Outdoor Air Pollution
- **Health & Human Condition**
  - Inhalation Hazards
  - Toxicology
  - Pediatric Asthma
  - Birth defects
  - Indoor Environment Quality
- **Climate Change/Health**
  - Urban Heat Island Effect
  - Aeroallergen prevalence
  - Cold Waves & Winter Storms
Department of Earth and Environmental Sciences

Instrumentation at heart of EES research and teaching

❖ Shimadzu Center for Environmental, Forensics and Material Science

Raman Microscopy Laboratory - DXRi Laser Raman Spectroscope

Ultra-Clean Room Lab - 400 ft2 ISO-6 clean room with ISO-4 laminar flow Hood
Department of Earth and Environmental Sciences

Academic Programs

**EARTH SCIENCE**
- **B.S. in Geology**
  1. Professional Option
  2. Environ. Geosci. Option
  3. Engineering Geol. Option
- **B.A. in Geology**
  1. General Option
  2. Teacher Cert. Option
  3. GIS Option
- **MS in Geoscience**
  1. Thesis Option
  2. Non-Thesis Option
  3. Petroleum Geoscience Professional Option

**ENVIRONMENTAL SCIENCE**
- **B.S. Environmental Science**
  (*BA Environmental Science & BA in Environmental Studies under consideration*)
- **MS in Environmental Science**
  1. Thesis Option
  2. Non-Thesis Option
  3. Professional Option

• Ph.D. in Earth and Environmental Sciences