EARTH SCIENCES

The Department of Earth Sciences offers programs of study leading to the following degrees:

• B.S. in geology (B.S. GEOL) with an option in environmental geology;
• B.S. in meteorology (B.S. MET);
• B.S. in ocean sciences and coastal studies (B.S. OSCS) with an option in physical oceanography;
• B.A. in the earth sciences (B.A. ESCI);
• and B.S. in Education (B.S.Ed.) in earth sciences with a secondary education teaching certification in earth and space sciences.

The B.S. GEOL, B.S. MET, and B.S. OSCS are designed to prepare students for the professional workforce or advance to graduate education with qualifications and skills that will ensure success. The meteorology curriculum conforms to the American Meteorological Society's (AMS) guidelines for a B.S. in atmospheric science/meteorology, and the GS-1340 civil service requirements for government employment (e.g., National Weather Service, NOAA). The geology curriculum prepares every student for their Professional Geologist License. The ocean sciences and coastal studies program has ocean/bay access at the Chincoteague Bay Field Station (CBFS) at the Wallops Island Marine Science Consortium, where students have opportunities for hands-on, feet-wet experiences, including research vessels. Academic minors in areas where the workforce is strong or emerging, such as data science including AI and machine learning, emergency management, mathematics, broadcast communication, government and political affairs, and heliophysics and space weather, are encouraged but not required.

Millersville University is a senior partner of the CBFS, institutional member of the University Corporation for Atmospheric Research (UCAR), American Meteorological Society (AMS), American Geophysical Union (AGU), American Geosciences Institute (AGI), and the National Weather Association (NWA), an educational partner of the Weather Risk Management Association (WRMA), and a member of the International Association of Emergency Managers (IAEM). The University is a participant in the National Weather Service (NWS) StormReady® program and the Mid-Atlantic Regional Association Coastal Observing System, and the AMS Student Chapter is a member of the Weather-Ready Nation (WRN). For more information, see www.millersville.edu/esci/ (https://www.millersville.edu/esci/)