

# ENVIRONMENTAL SCIENCE CERTIFICATE

---

Program Website: <https://www.towson.edu/fcsm/departments/environsci/grad/environmental-science-certificate/>

Program Director: Joel Moore  
Phone: 410-704-4245  
Email: [moore@towson.edu](mailto:moore@towson.edu)

## Requirements

### Admission Requirements

Application deadlines and a full listing of materials required for admission can be found on the website.

### Certificate Requirements (18 units)

All students wishing to receive a certificate complete a minimum of 18 units of graduate work as follows: two core courses and additional electives, selected in consultation with an adviser, from one concentration. No more than three 500-level courses can be counted toward the certificate.

### Learning Outcomes

1. Collect and evaluate geological, chemical and ecological data associated with creating and resolving solutions to current (and local) environmental problems.
2. Interpret the legal framework that underlies environmental regulation as it applies to protecting human health and the environment.
3. Apply their knowledge of geological, chemical and ecological processes to environmental data collection, analysis and interpretation in order to propose viable solutions to complex multidisciplinary environmental issues.
4. Find, read and comprehend the primary scientific literature that relates to environmental issues and produce written documents using a scientific format.
5. Communicate clearly, both in writing and orally, to a wide audience (potential stakeholders) the scientific basis for environmental decisions that impact human health and the environment.