

Coatings & Polymeric Materials

Department Information

- **Department Chair:**
Dean C. Webster, Ph.D.
- **Department Location:**
Research I, Research Park
- **Department Phone:**
(701) 231-7633
- **Department Web Site:**
www.ndsu.edu/cpm/ (<http://www.ndsu.edu/cpm/>)
- **Application Deadline:**
April 15 is the priority deadline for fall consideration. Applications are reviewed on a rolling basis.
- **Credential Offered:**
Ph.D., M.S.
- **English Proficiency Requirements:**
TOEFL ibt 79; IELTS 6.5; Duolingo 105

The Department of Coatings and Polymeric Materials offers graduate studies leading to the Master of Science (M.S.) and Doctor of Philosophy (Ph.D.) degrees in coatings and polymeric materials. Departmental research bridges between basic and applied research in the field of polymers and coatings. There is a unique atmosphere and opportunities for cross-disciplinary research experience, often accomplished by multi-disciplinary research activities with, for example, chemistry or engineering departments. Advanced research work involves specialized training in the following areas: colloidal and interfacial chemistry of polymers and coatings, polymer synthesis, adhesion, durability, spectroscopy, corrosion, electrochemistry, nanomaterials design and synthesis, computational modeling, life cycle assessment, and rheology. The department has an industrial advisory board consisting of leading industrial scientists and/or former graduates who provide new directions and other feedback to the program.

Research Facilities and Equipment

The Department of Coatings and Polymeric Materials is housed in a modern building in the North Dakota State University (NDSU) Research and Technology Park on the northwest corner of the campus. This building consists of nearly 40,000 square feet of space for research and teaching. Modern equipment and instrumentation have profoundly influenced the development of instruction and are the cornerstones of research in the chemical and materials sciences. The Department of Coatings and Polymeric Materials possesses extensive instrumentation to characterize polymers and colloids ranging from state-of-the-art spectrometers, thermal analysis systems, advanced electrochemical equipment to study corrosion, and atomic force microscopes, as well as equipment for paint making and testing. Other modern research facilities, including state-of-the-art electron microscopy, thermal analysis, high-performance computing and NMR laboratories, are readily available to all researchers on the NDSU campus and in the NDSU Research and Technology Park.