

Additional Interdisciplinary Opportunities

In addition to the programs in Engineering Management (see the *Department of Mechanical and Industrial Engineering* section) and Engineering Physics (see the *Department of Electrical and Computer Engineering* section), the College of Engineering offers the following interdisciplinary minors:

- Minor in Environmental Engineering
- Minor in International Studies
- Minor in Materials Engineering

Minor in Environmental Engineering

Growth in the world's population continues to put increasing pressure on resources that must be met in a sustainable way. Environmental Engineering is the field of engineering that employs biological, chemical, and physical treatment principles for the reduction of pollution in water, soil, sediment, and air to protect both human and ecological health. While great strides have been made in the last half century to improve the quality of these resources, much needs to be done to limit pollution of the environment and prevent pollution from happening in the first place. The College of Engineering offers a minor area of study in Environmental Engineering that crosses disciplinary boundaries among engineering specialties and departments. Students interested in the Minor in Environmental Engineering should contact Professor Karl Rockne in the Department of Civil and Materials Engineering at krockne@uic.edu.

Minor in International Studies

The scope of operations for many engineering companies is becoming more international each year. These companies are placing a percentage of their engineers outside the United States. In order to be prepared for living and working in a different culture, the College of Engineering offers the International Studies Minor, a cluster of courses related to a specific country outside of the United States.

Minor in Materials Engineering

Materials selection is a part of most areas of engineering. As technology advances and the envelope of new achievement is enlarged, many demands are placed on materials for operating under more extreme conditions. Higher temperature tolerance, higher strength, lower weight, reduced corrosion susceptibility, and better compatibility with other materials and fluids become important considerations. Materials engineering involves the understanding and characterization of materials for such considerations, and the College of Engineering offers it as a minor area of study crossing disciplinary boundaries in engineering and basic science. Students interested in the Minor in Materials Engineering should contact Professor Michael McNallan in the Department of Civil and Materials Engineering at mcnallan@uic.edu.

Minors

- Minor in Environmental Engineering (<http://catalog.uic.edu/ucatl/colleges-depts/engineering/addl-interdisciplinary-opps/minor-env-eng>)

- Minor in International Studies (<http://catalog.uic.edu/ucatl/colleges-depts/engineering/addl-interdisciplinary-opps/minor-inst>)
- Minor in Materials Engineering (<http://catalog.uic.edu/ucatl/colleges-depts/engineering/addl-interdisciplinary-opps/minor-mate>)