

BIB PROGRAMS AT SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

DEPARTMENT OF CIVIL ENGINEERING COURSEWORK

Best Practices in Storm Water Management - The stormwater related coursework prepares Civil Engineering students at SIUE to work in municipal governments or in consulting firms providing engineering services to municipalities or private developers. Upon successful completion of the sequence of three courses, students become able to use appropriate design guides and engineering standards for the stormwater management system, to design and develop major components of stormwater systems, incorporating green infrastructures for low impact development, and to perform computer modeling and analysis of stormwater systems.

COURSES

CE 315 Fluid Mechanics

This course addresses the basic principles of conservation of mass, momentum and energy in fluid systems, dimensional analysis, open-channel flow, incompressible flow, and boundary layers.

CE 416 Engineering Hydrology

This course discusses hydrological processes and their relationship to the design of structures for the control and management of water resources, including rainfall-runoff relationship, probability and frequency analysis, and surface water hydrology.

CE 492 Stormwater Management

This course addresses storm water management in terms of both quantity and quality, including modeling for stormwater management system, engineering principles, and planning and design of green infrastructures for low impact development.



CAREER OPPORTUNITIES

- Water Resources Engineer
- Municipal Engineer
- Environmental Engineer
- Project Engineer
- Construction Engineer