TOGETHER, WE BUILD.

The Lyles School of Civil Engineering knows that, as engineers, your interests often span several emphasis areas. With our flexible program, you are able to create a meaningful combination of these nine exciting fields, preparing you for a well-rounded and successful career.

GEOTECHNICAL ENGINEERS add stability to each day by analyzing and designing foundations, slopes, and retaining structures that are made of or supported by soil or rock.

A day’s work for ENVIRONMENTAL ENGINEERS involves applying science and engineering principles to improve the environment, water, air and land while protecting human health and our planet’s resources.

MATERIALS ENGINEERS are at the forefront of future development; combining engineering with scientific principles to create improved and smart materials for the next generation of infrastructure.

Preventing floods, simulating water movement, restoring rivers, conserving clean water and protecting coastlines are just a few ways HYDRAULIC & HYDROLOGIC ENGINEERS shape the world.

By integrating design, construction, and operation of buildings and their systems, ARCHITECTURAL ENGINEERS work to improve sustainability and energy efficiency while enhancing human comfort and health.

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Both the simplest of daily activities and the most complex global challenges can be connected to civil engineers. At Purdue’s Lyles School of Civil Engineering, you’ll make your mark on a world that is constantly improving. With nine interconnected emphasis areas in our program to draw from, our students aren’t just solving today’s problems—they’re creating pathways for a more sustainable tomorrow.

Contact Us
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**Structural Engineers** create lasting impact by analyzing and designing infrastructure, from buildings, bridges and dams to facilities that house new forms of power generation and more.

With knowledge of business practices, economics and human behavior, **Construction Engineers** manage operations and perform tasks that optimize construction procedures and improve our world.

**Transportation Engineers** take a coordinated approach to ensuring the safe and efficient movement of people and goods by planning, designing and operating roads, airports, railroads, and public transit.

While tackling global challenges, **Geomatics Engineers** design and develop systems that collect and analyze geospatial information about the earth, environment and natural resources.

**Materials Engineers** are at the forefront of future development, combining engineering with scientific principles to create improved and smart materials for the next generation of infrastructure.

By integrating design, construction, and operation of buildings and their systems, **Architectural Engineers** work to improve sustainability and energy efficiency while enhancing human comfort and health.

**Environmental Engineers** involve applying science and engineering principles to improve the environment, water, air and land while protecting human health and our planet’s resources.

**Hydraulic & Hydrologic Engineers** shape the world.

**Geotechnical Engineers** add stability to each day by analyzing and designing foundations, slopes, and retaining structures that are made of, or supported by, soil or rock.
Preserving and Protecting Human Health  
Work to lessen the impact of pollutants on humans and design sustainable systems to improve air quality and provide clean water.

Protecting Natural Environments  
Manage, restore and protect natural systems for sustainable use of resources while mitigating effects of harmful contaminants.

Land Development  
Plan and lay out the design of utilities, transportation and infrastructure systems for future development.

Intelligent Transportation Systems  
Create and integrate systems and sensors that safely manage multiple modes of transport as well as increase transport capacity.

Resilient Structures  
Shelter humans in the most extreme environments and design structures that safely respond to natural and man-made events.

Disaster Recovery  
Collect data and analyze how communities can better recover from natural disasters.

Creating Landmarks  
Design and build iconic infrastructure that defines cities and countries.

Implementing Infrastructure  
Optimize and manage various aspects of the construction process to achieve efficiency and sustainability.

Smart Buildings  
Design net-zero energy buildings, self-regulating building systems, and sensors to detect energy and human comfort needs.

Alternative/Cleaner Energy  
Design and implement green technology systems such as wind and solar energy.

WE ENGINEER TOMORROW’S SOLUTIONS TODAY
TOGETHER, WE BUILD.

LYLES SCHOOL OF CIVIL ENGINEERING

INTERCONNECTED SOLUTIONS FOR A BETTER WORLD

Precipitation events, simulating water movement, restoring rivers, conserving clean water, and protecting coastlines are just a few ways HYDRAULIC & HYDROLOGIC ENGINEERS shape the world.

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A DAY’S WORK FOR ENVIRONMENTAL ENGINEERS INVOLVES APPLYING SCIENCE AND ENGINEERING PRINCIPLES TO IMPROVE THE ENVIRONMENT, WATER, AIR, AND LAND WHILE PROTECTING HUMAN HEALTH AND OUR PLANET’S RESOURCES.

MATERIALS ENGINEERS ARE AT THE FOREFRONT OF FUTURE DEVELOPMENTS; COMBINING ENGINEERING WITH SCIENTIFIC PRINCIPLES TO CREATE IMPROVED AND SMART MATERIALS FOR THE NEXT GENERATION OF INFRASTRUCTURE.

THE LYLES SCHOOL OF CIVIL ENGINEERING KNOWS THAT, AS ENGINEERS, YOUR INTERESTS OFTEN SPAN SEVERAL EMPHASIS AREAS. WITH OUR FLEXIBLE PROGRAM, YOU ARE ABLE TO CREATE A MEANINGFUL COMBINATION OF THESE NINE EXCITING FIELDS, PREPARING YOU FOR A WELL-ROUNDED AND SUCCESSFUL CAREER.

BY INTEGRATING DESIGN, CONSTRUCTION, AND OPERATION OF BUILDINGS AND THEIR SYSTEMS, ARCHITECTURAL ENGINEERS WORK TO IMPROVE SUSTAINABILITY AND ENERGY EFFICIENCY WHILE ENHANCING HUMAN COMFORT AND HEALTH.

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