

# CIVIL AND ENVIRONMENTAL ENGINEERING

## Faculty

- Chairperson: Joseph P. Weber<sup>1</sup>
- Professors: Rachel G. Adams, Michael E. Manoogian<sup>1</sup>, Joseph C. Reichenberger<sup>1</sup>
- Associate Professor: Joseph P. Weber<sup>1</sup>
- Assistant Professor: Mehrdad Aghagholizadeh<sup>1</sup>, Jin Y. Choi, John Petrie<sup>1</sup>
- Professor Emeriti: John Dorsey, Roger Tim Haug<sup>1</sup>, Michael E. Mulvihill<sup>1</sup>
- Lecturers: Dennis Kasper<sup>1</sup>, Daniel Samaro<sup>1</sup>, Stephen Opot<sup>1</sup>, Donald Kendall<sup>1</sup>, Jeremy S. Pal, William J. Trott<sup>1</sup>

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Registered Professional Engineer

## Description

The civil engineer applies a wide spectrum of engineering, scientific, and economic principles to plan, design, and oversee a wide variety of infrastructure projects which improve the quality of life, protect the environment, and facilitate economic growth. These projects include roads and highways, railroads, mass transit systems, airports, bridges, buildings, structures, harbors, flood control and drainage works, water supply, treatment and distribution systems, wastewater treatment and reuse systems, irrigation systems, pipelines, renewable energy systems, and power plants. Civil Engineers are integral part of these projects from planning, designing, and construction to their health assessment, maintenance, and retrofit.

## Program Mission

The mission of the Department of Civil and Environmental Engineering is to provide opportunities for students to develop the skills and knowledge necessary to become productive professionals through a rigorous, student-centered curriculum that balances theory and practice, serving the needs of society by emphasizing sustainability & resilience and environmental justice to meet the challenges of an ever-changing, complex world through a dynamic engineering program.

## Programs

- Civil Engineering, B.S.E. (<https://bulletin.lmu.edu/schools-colleges/science-engineering/civil-environmental-engineering/civil-engineering-bse/>)
- Civil Engineering, M.S.E. (<https://bulletin.lmu.edu/schools-colleges/science-engineering/civil-environmental-engineering/civil-engineering-mse/>)
- Climate Change Solutions Certificate (<https://bulletin.lmu.edu/schools-colleges/science-engineering/civil-environmental-engineering/climate-change-solutions-certificate/>)
- Dual M.S. Environmental Science/Master of Business Administration (<https://bulletin.lmu.edu/schools-colleges/science-engineering/civil-environmental-engineering/dual-ms-environmental-science-mba/>)
- Dual M.S.E. Civil Engineering/Master of Business Administration (<https://bulletin.lmu.edu/schools-colleges/science-engineering/civil-environmental-engineering/dual-mse-civil-engineering-mba/>)

- Environmental Science, M.S. (<https://bulletin.lmu.edu/schools-colleges/science-engineering/civil-environmental-engineering/environmental-science-ms/>)
- Groundwater Management Certificate (<https://bulletin.lmu.edu/schools-colleges/science-engineering/civil-environmental-engineering/groundwater-management-certificate/>)
- Solutions for Sustainable Development, Health, and Equity Certificate (<https://bulletin.lmu.edu/schools-colleges/science-engineering/civil-environmental-engineering/solutions-sustainable-development-health-equity-certificate/>)
- Sustainability Certificate (<https://bulletin.lmu.edu/schools-colleges/science-engineering/civil-environmental-engineering/sustainability-certificate/>)
- Water and Wastewater Treatment Certificate (<https://bulletin.lmu.edu/schools-colleges/science-engineering/civil-environmental-engineering/water-wastewater-treatment-certificate/>)
- Water Quality Management Certificate (<https://bulletin.lmu.edu/schools-colleges/science-engineering/civil-environmental-engineering/water-quality-management-certificate/>)