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## CIVIL AND ENVIRONMENTAL ENGINEERING, PHD

## LEARNING OUTCOMES

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- 1. Demonstrate an extraordinary, deep understanding of mathematical, scientific, and engineering principles in the field.
- Demonstrate an ability to formulate, analyze, and independently solve advanced engineering problems.
- 3. Apply the relevant scientific and technological advancements, techniques, and engineering tools to address these problems.
- 4. Recognize and apply principles of ethical and professional conduct.
- 5. Demonstrate an ability to synthesize knowledge from a subset of the biological, physical, and/or social sciences to help frame problems critical to the future of their discipline.
- 6. Demonstrate an ability to conduct original research and communicate it to their peers.