

# MASTER OF SCIENCE IN CIVIL AND ENVIRONMENTAL ENGINEERING, PLAN B

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The Master of Science (M.S) is viewed by some employers as the entry-level degree in civil and environmental engineering. The M.S. allows integration of advanced study and research within a variety of subdiscipline areas, including agricultural water management, environmental engineering, geoengineering, hydraulic engineering and environmental fluid mechanics, hydrologic science and engineering, structural engineering and mechanics, water and international development, and water resources planning and management.

The M.S. degree, Plan B, is completed with a professional report requiring 32 graduate course credit hours.

Students interested in graduate work should refer to the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>).

## Learning Objectives

1. Use concepts and frameworks to effectively design, analyze, and implement creative solutions to engineering and practical problems using relevant tools and techniques in their chosen focus area within civil and environmental engineering.
2. Apply in-depth knowledge and creativity to advance solutions in their chosen focus area within civil and environmental engineering.
3. Achieve a level of understanding that will allow them to contribute to the advancement of the civil and environmental engineering profession in their chosen focus area while demonstrating professional behavior and ethics.
4. Demonstrate effective oral and written communication skills to convey technical concepts to both technical and non-technical stakeholders.
5. Apply technical competencies and applied research to successfully undertake further advanced study at the doctoral level in civil and environmental engineering or a related area.