Civil and Environmental Engineering
MS Program Overview

Mario Berges
Associate Professor
Civil and Environmental Engineering
MS Curriculum

- Flexible; no fixed course requirements
- Recommended curricula for eight MS concentrations
- Need to complete 96 units (typical grad course = 12 units)
- 5 CEE courses plus 3 other courses
- Can count two upper-level undergrad courses
CEE Graduate Focus Areas

- Advanced Infrastructure Systems
- Environmental Engineering, Sustainability, and Science
- Mechanics, Materials and Computing
MS Concentrations

- Advanced Infrastructure Systems Technology Development and Applications
- IT-Based Sustainable Global Infrastructure and Construction Management
- Air Quality Engineering and Science
- Climate Change Adaptation for Infrastructure
- Energy Infrastructure Systems
- Sustainability and Green Design
- Water Quality Engineering and Science
- Computational Modeling and Monitoring for Resilient Structural and Material Systems

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Civil and Environmental Engineering
MS Degree Titles

**MS in Civil and Environmental Engineering**
- MS in Civil Engineering
- MS in Advanced Infrastructure Systems
- MS in Computational Mechanics
- MS in Environmental Engineering
- MS in Environmental Management and Science

**Interdisciplinary and Dual MS Programs**
- MS in Architecture-Engineering Construction Management
- MS CEE and MBA
- MS in Engineering & Technology Innovation Management and MS in Civil and Environmental Engineering
Makeup Courses – Non-Engineering BS

- Fluid Mechanics (6 units, First Fall)
- Project Management (9 units, First Fall)
- Engineering Economics (6 units, First Fall)
- Solid Mechanics (9 units, Spring)
- Soil Mechanics (9 units, Second Fall)

42 units total
Professional Development

- CEE Department seminars: 5/Fall and 4/Spring
- CEE Professional Development seminars: 2/semester
- Graduate focus area research seminars: weekly
- Some group seminars and evening events aimed at career exploration
- Special seminars ULS, DLS
- Various companies provide information events in the department related to recruiting
Career Planning Resources

- CMU Career and Professional Development Center
- CEE Career Counselor
- CEE Career Fair
- CEE Faculty academic advisors
What Can You Do With an MS in CEE

Our CEE MS students head off to all sorts of challenging careers!

- Private Industry
- Government
- NGOs
- Consulting
- Construction
- Software Development
- Start-Up Companies
- Academia
What We Offer You

• Outstanding peers
• Culture of innovation and excellence
• Collegial, family atmosphere
• Strong and supportive community of students, alumni, faculty, and staff
• Energetic, high-achieving and approachable faculty who are leaders in their field
• Interdisciplinary study: strong links with Architecture, ME, ChE, MSE, EPP, SCS, Heinz, Robotics, Tepper School, others

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