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| **DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING**  **COMBINED B.S./M.S. PROGRAM** |

**APPLICATION FOR THE COMBINED BS/MS PROGRAM**

**Department of Civil and Environmental Engineering**

**University of Maryland**

Name: Date: Student ID:

Email: Expected Date for Completing the B.S. Degree:

Local Address:

Permanent Address:

Expected CEE Faculty Advisor for research:

Please indicate (by highlighting, underlining, or circling) the CEE graduate program to which you expect to apply:

Environmental Geotechnical Project Management

Structures Transportation Water Resources

Research Statement (Attach a separate sheet if you prefer:

Please return your statement to Dr. McCuen

**UNIVERSITY OF MARYLAND**

The Graduate School

2123 Lee Building

College Park, MD 20742-5121

Combined Bachelor’s/Master’s Degrees

Name: Student ID:

Address:

Local Phone: Graduate Program: **Civil & Environmental Engineering**

The following courses are to be included in the cumulative G.P.A. for the graduate program listed above.

Up to 6 credits taken under the combined BS/MS program may be included.

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| Semester | Prefix | Course no. | Suffix | Credit |
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Faculty Research Advisor\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_

Department Undergraduate Chair \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_

Department Graduate Chair \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_

Graduate School Director \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_

**Environmental**

* ENCE630: Environmental and Water Resources Systems 1
* ENCE650: Process Dynamics in Environmental Systems
* ENCE651: Chemistry of Natural Waters
* ENCE652: Microbiological Principles of Environmental Engineering
* ENCE655: Environmental Behavior of Organic Pollutants
* ENCE756: Bioremediation

**Geotechnical Engineering**

* ENCE640: Advanced Soil Mechanics
* ENCE641: Advanced Foundation Systems
* ENCE647: Slope Stability and Seepage
* ENCE741: Earth Retaining Structures
* ENCE743: Soil Dynamics and Earthquake Engineering

**Project Management**

* [ENCE 602 Project Procurement Management](https://pm.umd.edu/course/project-procurement-management/)
* [ENCE 604 Sustainability Fundamentals for Project Managers](https://pm.umd.edu/course/sustainability-fundamentals-for-project-managers-2/)
* [ENCE 605 Evolving as a Project Leader](https://pm.umd.edu/course/evolving-as-a-project-leader/)
* [ENCE 606 Graduate Introduction to Project Scheduling](https://pm.umd.edu/course/introduction-to-project-scheduling/)
* [ENCE 607 Mastering Agile Project Management](https://pm.umd.edu/course/mastering-agile-project-management/)
* [ENCE 622 Construction Automation & Robotics](https://pm.umd.edu/course/construction-automation-robotics/)
* [ENCE 623 Advanced Project Scheduling](https://pm.umd.edu/course/advanced-project-scheduling/)
* [ENCE 625 Project Administration](https://pm.umd.edu/course/project-administration-2/)
* [ENCE 626 Web-Based Project Management](https://pm.umd.edu/course/web-based-project-management/)
* [ENCE 627 Project Risk Management](https://pm.umd.edu/course/project-risk-management/)
* [ENCE 632 Introduction to Infrastructure Resilience](https://pm.umd.edu/course/introduction-to-infrastructure-resilience/)
* [ENCE 633 Assessment of Natural Hazards for Engineering Applications](https://pm.umd.edu/course/assessment-of-natural-hazards-for-engineering-applications-graduate/)
* [ENCE 660 Principles of Disaster Management](https://pm.umd.edu/course/principles-of-disaster-management/)
* [ENCE 661 Project Cost Accounting & Finance](https://pm.umd.edu/course/project-cost-accounting-finance/)
* [ENCE 662 Fundamentals of Project Management](https://pm.umd.edu/course/introduction-to-project-management/)
* [ENCE 664 Legal Aspects of Engineering Design & Construction](https://pm.umd.edu/course/legal-aspects-of-engineering-design-construction/)
* [ENCE 665 Managing Project Teams: Improving Individual and Team Performance](https://pm.umd.edu/course/managing-project-teams-improving-individual-and-team-performance/)
* [ENCE 666 Cost Engineering and Control](https://pm.umd.edu/course/cost-engineering-and-control/)

**Structural Engineering**

* ENCE610: Fundamentals of Structural Analysis
* ENCE611: Finite Element Methods
* ENCE613: Structural Dynamics
* ENCE620: Engineering Risk Analysis

**Transportation**

* ENCE 677: OR Models for Transportation Systems Analysis
* ENCE 675: Airport Planning and Design
* ENCE673: Urban Transportation
* ENCE674: Urban Transit Planning and Rail Transportation Engineering
* ENCE672: Regional Transportation Planning (Prereq ENCE471)

**Water Resources**

* ENCE 630: Environmental and Water Resources Systems I
* ENCE 631 Hydrologic and Non-Point Pollution Models
* ENCE 635 Geographic Information Systems for Watershed Analysis
* ENCE 689B: Land-Atmosphere Interactions in Hydrology
* ENCE 688D Surface Water Quality Modeling
* ENCE 689E: Data Assimilation in Civil Engineering
* ENCE 689G: Remote Sensing of Global Water
* ENCE 688K Flow in Open Channels and Conveyance Structures
* ENCE 730: Environmental and Water Resources Systems II