



PROFESSIONAL SCIENCE MASTER'S DEGREES

PROGRAM OVERVIEW

The Professional Science Master's Degree (PSM) programs at the University of the District of Columbia are designed for graduate students and working professionals to prepare them to address the complex issues facing urban communities around the world. Students may earn a certificate in one of three areas of specialization; Water Resources Management, Urban Sustainability, or Urban Agriculture. By combining the certificates with the core and professional courses you can earn a PSM degree. Each certificate consists of 15-16 credit hours. The core and professional courses consist of 16 credit hours. A minimum of 35 credit hours is required for the PSM degree, which can be completed in less than two years of full-time study.

PROGRAMS OF STUDY

- Water Resources Management
- Urban Sustainability
- Urban Agriculture

**APPLY
TODAY!**

Contact

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GRADUATES WILL:

- Demonstrate effective critical and problem solving skills by applying both qualitative and quantitative approaches.
- Apply advanced statistical and geospatial analytical tools to support informed decision making.
- Demonstrate professionalism with good oral and written communication skills.
- Apply both basic and state-of-the art analytical technologies in determining the quality and sustainability of natural or built environments.
- Apply project management and sustainability concepts to plan, execute, monitor and control a project.
- Monitor and assess the impact of urban development on ecosystem health and services.

Aspire. Accomplish. Take on the World

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PROGRAM CURRICULA

Core and Professional Courses (16 credit hours):

Environmental Impact Assessment: Integrated Project
Sustainable Entrepreneurship and Business Incubator
The Systems Approach and Project Management
Public Communication for STEM Professionals
Ethics, Responsible Conduct of Research & Prof Responsibility
Quantitative and Qualitative Research Methods

****Note** All three programs require the same core and professional courses

Water Resources Management Program (15 credit hours, lecture and lab):

Water Quality Assessment, Monitoring & Treatment
Surface & Groundwater Hydrology
Water Quality Modeling
GIS for Water Resource Management
Stream Restoration

Urban Agriculture Program (16 credit hours lecture and lab):

Water Quality Assessment, Monitoring & Treatment
Food Production and Agro-ecology
Advance Climate Science
Advanced Sustainable Urban Agriculture
Contemporary Issues in Nutrition
Urban Land Use Planning

Urban Sustainability Program (16 credit hours lecture and lab):

Food Hubs in Urban Sustainability
Ecological Economics
Urban Land Use Planning
Advanced Climate Science
Sustainable Design I
Dietary Cancer

Required Experiential Learning (4 Credit hour of work & professional training)

Real World Experience through Employer Site Internship
Capstone project, including grant writing

****Note** Each PSM program may be completed as a certificate. When combined with the required core and professional courses students receive a PSM degree.