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.

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.
PROFESSIONAL SCIENCE MASTER'S DEGREES

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.