Columbia University in the City of New York offers the world’s foremost graduate degree programs in applied sustainability studies. The Certification in Sustainability Analytics addresses the need to train professionals in quantitative and technical skills central to the practice of sustainability.

The management adage “What Gets Measured Gets Done” is particularly true as it relates to the implementation of sustainability initiatives. The Certification in Sustainability Analytics trains professionals to develop skills in analytic methods and quantitative analysis that enable practitioners to measure, report, and communicate the sustainability of organizations, products, and services.

Upon completion of this program, students will possess the knowledge and tools to track sustainability indicators, analyze and interpret data, and report upon the findings to industry, nonprofit, and government decision makers. The certification focuses on key topics in accounting, metrics and indices, monitoring procedures, and reporting. Students who complete the certification will have a strong framework that can be used to benchmark performance and develop future sustainability initiatives.

The certification may be taken as a complement to other graduate degree programs, including the Master of Science in Sustainability Management, or it can be taken as a stand-alone program.

FACULTY

Instructors include world-class sustainability experts and practitioners with experience at leading companies and public organizations, including the World Bank, the City of New York, the Port Authority of NY & NJ, the Wildlife Conservation Society, The New York Times, Accenture, Bloomberg Associates, Goldman Sachs, White & Case LLP, Heineken USA, Colgate-Palmolive, and the United Nations Development Programme.

STUDENTS

The Certification in Sustainability Analytics is ideal for sustainability professionals in the New York City metropolitan region. It is applicable across a variety of industries, including: financial services, construction, utilities, energy, industrial manufacturing, pharmaceuticals, media, food service, transportation, and technology, among others.
CURRICULUM

The Certification in Sustainability Analytics requires the successful completion of four courses or 12 points. Students enrolled on a part-time basis can complete the certification requirements in as many as four semesters. Students enrolled on a full-time basis can complete the certification requirements in one semester. Students choose four 3 point courses, including the following course offerings:

- Cost Benefit Analysis
- GHG Emissions: Measuring and Minimizing the Carbon Footprint
- Analysis for Energy Efficiency
- Decision Models and Management
- Statistics for Sustainability Management
- Sustainability Metrics
- Geographic Information Systems (GIS) for Sustainability Management
- Corporate Sustainability Reporting and Strategy
- State of Sustainability Data
- Solar Project Development
- Consumerism and Sustainability
- Environmental Infrastructure for Sustainable Cities

COMMUNITY

The students who enroll in the Sustainability Analytics Certification are members of the Columbia Climate School’s Earth Institute, the School of Professional Studies, and the greater Columbia University community. The Earth Institute reaches across the University to draw and integrate expertise from numerous academic disciplines, in order to propose solutions to some of the world’s most pressing problems. The Columbia Climate School, which encompasses the Earth Institute, will provide the scholarship needed to tackle climate change and its related challenges. Students who pursue the certification have access to the Institute’s leading experts in the field of sustainability, as well as the rest of the University’s world renowned faculty. The students study alongside a new generation of problem solvers who are enrolled in the Earth Institute’s academic programs. All students have access to the Earth Institute’s Professional Development program and the hundreds of extracurricular activities that the Institute organizes each year.

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TO APPLY

Application Deadlines
• Fall enrollment: May 15th
• Spring enrollment: November 1st

For more information about the Certification in Sustainability Analytics, please visit

www.sustainability.ei.columbia.edu/sustainability-analytics

CONTACT

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COLUMBIA CLIMATE SCHOOL
THE EARTH INSTITUTE

COLUMBIA UNIVERSITY
School of Professional Studies
Columbia University in the City of New York offers the world’s foremost graduate degree programs in applied sustainability studies. The **Certification in Sustainable Water Management** focuses on the science, policy, and economics of sustainable water management. Students who complete the certification will be able to develop and manage reliable water supplies given diverse sources and variability in climate and water quality.

This certification equips professionals with the skills to conduct integrated water management and water systems analysis. These professionals – ranging from urban planners for local governments to operations managers for large supply chains, to NGO staff focused on issues of health in developing communities – need new skills to create effective solutions to the world’s water problems.

According to the United Nations Development Programme, just under 900 million people lack access to safe water and over 2.7 billion lack access to basic sanitation. As the world’s population continues to grow, the demand for access to water is rising. At the same time, the impacts of climate change are making it more difficult to ensure the supply of safe water to the populations that need it most. The Sustainable Water Management Certification addresses concepts of hydrology, water policy and regulation, economics, finance and conflict resolution. The program is designed to provide sophisticated and multidisciplinary training in water issues – the nexus of natural science, social science and public policy.

Students will learn the science of the hydrological cycle; best practices in water systems management; the economics of water; how large-scale water projects are financed; how water is allocated and the principles of water rights, access and privatization. Students will also learn how to develop reliable water supplies given diverse sources and variability in climate and water quality.

The certification may be taken as a complement to other graduate degree programs, including the Master of Science in Sustainability Management, or it can be taken as a stand-alone program.
FACULTY
Dr. Upmanu Lall, a leading expert on hydroclimatology, climate change adaptation, risk analysis and mitigation, directs the program. Course instructors include both expert faculty and leading practitioners in the fields of hydrology, environmental management, economics, and water policy.

STUDENTS
The Sustainable Water Management Certification is designed for a broad range of professionals whose careers involve water-related issues. The certification is applicable to a variety of fields and industries, including financial services, government, international development, manufacturing, risk management, supply chain management and utilities, pharmaceuticals, media, food service, transportation, and technology, among others.

CURRICULUM
Certification in Sustainable Water Management requires the successful completion of four courses or 12 points. All courses are offered in the evening to accommodate the schedules of students working full-time. The certification is available through part-time enrollment. Students enrolled on a part-time basis can complete the certification in as few as two or as many as four semesters. Students choose four 3-point courses, including the following course offerings:

- Water Governance
- Science of Sustainable Water
- Water Systems Analysis
- Earth’s Climate System
- The Science of Urban Ecology
- Solid Waste Management
- Elective Course

Subjects include but are not limited to: planning and finance for hydrologic systems, environmental data analysis, climate-water hazards, water quality, and water security, environmental engineering.

COMMUNITY
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For more information about the Certification in Sustainable Water Management, please visit www.sustainability.ei.columbia.edu/sustainable-water-management

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COLUMBIA CLIMATE SCHOOL
THE EARTH INSTITUTE
COLUMBIA UNIVERSITY
School of Professional Studies
The Certification in Sustainable Finance prepares students to meet the growing demand for professionals who understand and can apply the fundamentals of both corporate sustainability and finance. Courses cover environmental risk management, the environmental, social, and governance issues that affect capital markets, project finance, sustainable investing, green and carbon accounting, and environmental markets.

Students will learn traditional financial and accounting tools supplemented with sustainability-specific methods and topics. The certification program equips graduates with the practical information and tools they need to understand the impact of environmental sustainability in corporate financial management and in financial markets, and to enable them to prepare for and manage the consequences of both.

The certification comprises courses that cover concepts at the intersection of sustainability and financial management, such as sustainability economics, investment, accounting, risk management, and communication. Students will gain a foundation in the core concepts of corporate finance and an understanding of the sustainability drivers in finance. Students will also learn to analyze the non-financial metrics of sustainability ventures.

The certification may be taken as a complement to other graduate degree programs, including the Master of Science in Sustainability Management, or it can be taken as a stand-alone program.

FACULTY
Course instructors include both expert faculty and practitioners, who are leaders in the fields of sustainable finance, economics, accounting, corporate sustainability, and environmental markets, and risk management.
STUDENTS
The Certification in Sustainable Finance is geared to professionals with a strong interest in sustainability and finance. The certification is well-suited to practitioners in one or both of these areas, who desire formal training in sustainable finance, but also to professionals who aspire to enter this field. The certification is applicable to industries such as energy, financial services, real estate development, technology, transportation, and utilities.

CURRICULUM
All courses are offered in the evening to accommodate the schedules of students working full-time. The certification can be completed through part-time of full-time enrollment. Students enrolled on a part-time basis can complete the certification requirement in as many as four semesters. Students enrolled on a full-time basis can complete the certification requirements in one semester. The Sustainable Finance Certification requires the successful completion of four courses, or 12 points, from the following course offerings.

- Sustainable Finance
- Financing the Clean Energy Economy
- Cost Benefit Analysis
- Sustainable Investing and Economic Growth
- Energy Markets and Innovation
- Energy and Sustainable Development
- Financing Natural Infrastructure
- Solar Project Development
- Accounting, Finance, and Modeling of Sustainable Investment
- Climate Finance and Sustainable Development

COMMUNITY
The students who enroll in the Sustainable Finance Certification are members of the Columbia Climate School’s Earth Institute, the School of Professional Studies, and the greater Columbia University community. The Earth Institute reaches across the University to draw and integrate expertise from numerous academic disciplines, in order to propose solutions to some of the world’s most pressing problems. The Columbia Climate School, which encompasses the Earth Institute, will provide the scholarship needed to tackle climate change and its related challenges. Students who pursue the certification have access to the Institute’s leading experts in the field of sustainability, as well as the rest of the University’s world renowned faculty. The students study alongside a new generation of problem solvers who are enrolled in the Earth Institute’s academic programs. All students have access to the Earth Institute’s Professional Development program and the hundreds of extracurricular activities that the Institute organizes each year.

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