

Certification of Professional Achievement in Sustainability Analytics

Columbia University's Earth Institute and School of Professional Studies developed the Certification in Sustainability Analytics to address the need to formally train managers in specific quantitative and technical skills central to practicing 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, non-profit, 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.

FACULTY

Course instructors include both expert faculty and practitioners who are leaders in their respective fields of Earth science, environmental management and the implementation of measures to improve an organization's environmental performance.

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.

The Certification in Sustainability Analytics can be taken as a complement to other graduate degree programs — or it can be taken separately as a stand-alone certification.

All courses are offered in the evening to accommodate the schedules of students working full-time. The certification can be completed through part-time or full-time enrollment. 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.

CURRICULUM

The Certification in Sustainability Analytics requires the successful completion of 12 credits, where students choose four 3-point courses from the following course offerings:

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

COMMUNITY

Certification students are members of the Earth Institute and the School of Professional Studies communities. The Earth Institute is affiliated with more than 30 academic programs at Columbia University and has developed numerous innovative courses that train students to understand and address the pressing and complex issues of environmental protection and sustainability. The Earth Institute is conducting and applying interdisciplinary scientific research to address many cross-cutting issues, while training a new generation of problem solvers to tackle these issues in all areas of society.

Certification students are an integral part of a growing network of emerging sustainability professionals and are encouraged to take advantage of all University and cocurricular events and resources.

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Photo: Eileen Barosso

TO APPLY

Admission to the program is selective. Prospective students interested in learning about the program are encouraged to meet with the program director, the associate director, and faculty.

Application Deadlines

- Fall enrollment: May 15th
- Spring enrollment: November 1st

For more information about the Certification in Sustainability Analytics, please visit earth.columbia.edu/sustainabilityanalytics

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