# SUSTAINABILITY SCIENCE MAJOR (B.S.)

## Program Requirements

Students must complete 42 credits of General Education requirements (http://catalog.montclair.edu/undergraduate-graduate-degree-requirements/general-ed-ba-bs) and 3-9 credits of World Languages and Cultures Requirements (http://catalog.montclair.edu/undergraduate-graduate-degree-requirements/world-languages-cultures-requirement).

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### Core Courses

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Select one of the following sequences: 7-8

**Math Sequence A**

- MATH 111 Applied Precalculus
- or MATH 111 Precalculus Mathematics
- MATH 116 Calculus A

**Math Sequence B**

- MATH 122 Calculus I
- & MATH 221 and Calculus II

### Collateral Courses

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<td>EAES 281</td>
<td>Introduction to American Urban Studies</td>
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<tr>
<td>SOCI 311</td>
<td>Urban Sociology</td>
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### Decision-Making Systems

Select one of the following: 3

- EAES 361 Environmental Policy
- EAES 363 Geopolitics
- EAES 460 Environmental Law
- INBS 250 Introduction to International Business
- INBS 370 World Trade and Investment
- LAWS 220 Conflict and Its Resolution
- MGMT 231 Management Processes
- MGMT 315 Organizational Behavior
- MGMT 363 Business and Society
- MGMT 436 Strategic Project Management
- POLS 324 American Public Policy

### Urban Systems

Select one of the following: 3-4

- ANTH 255 Urban Anthropology
- ANTH 422 Environment and Community
- EAES 281 Introduction to American Urban Studies
- EAES 283 Urban Geography
- EAES 380 Transportation
- EAES 385 Urbanization and Environment
- EAES 391 Quantitative Methods in Geography and Urban Studies
- EAES 484 Urban Planning
- POLS 315 Urban Administration
- SOCI 311 Urban Sociology

### Global Systems

Select one of the following: 3-4

- ANTH 360 Environmental Anthropology
- ANTH 423 Community and Health
- ANTH 429 Building Sustainable Communities
- EAES 261 Conservation of Natural Resources
- EAES 262 Our Finite Earth: Population and Resources
- EAES 300 Energy Transitions: A Global Dependence
- EAES 360 Contemporary Problems in Conservation of Natural Resources
- EAES 475 Environmental Economics
- ECON 215 The Economics of Social Problems
- ECON 414 Economics of Natural Resources and Global Warming
- ECON 419 Economics Of Energy And Environmental Policy
- PSYC 230 Environmental Psychology
- SOCI 220 Sociology of Rich and Poor Nations
- SOCI 312 Environmental Sociology
- SOCI 314 Environmental Justice

### Climate and Hydrologic Processes

Select one of the following: 3-4

- EAES 201 Understanding Weather and Climate
- EAES 230 Hydrology
- EAES 250 Introduction to Marine Sciences
- EAES 330 Fluvial Geography
- EAES 331 Geohydrology
- EAES 332 Hydroclimatology
- EAES 350 Oceanography
- EAES 403 Meteorology
- EAES 454 Human Impact on the Coastal Zone

### Surface Processes

Select one of the following: 2-4

- EAES 200 Geomorphology
- EAES 210 Introduction to GIS and Remote Sensing
- EAES 310 Geographic Information Systems (GIS)
- EAES 311 Fundamentals of Remote Sensing of Environment
- EAES 321 Economic Geology
- EAES 340 Sedimentology
- EAES 341 Principles of Soil Science
- EAES 410 Advanced Topics in GIScience
- EAES 451 Coastal Marine Geology
- EAES 452 Dynamic Beach Processes
- EAES 453 Tidal Marsh Sedimentations

### Biological and Chemical Processes

Select one of the following: 2-4

- EAES 201 Understanding Weather and Climate
- EAES 230 Hydrology
- EAES 250 Introduction to Marine Sciences
- EAES 330 Fluvial Geography
- EAES 331 Geohydrology
- EAES 332 Hydroclimatology
- EAES 350 Oceanography
- EAES 403 Meteorology
- EAES 454 Human Impact on the Coastal Zone
**Sustainability Science Major (B.S.)**

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**Additional Electives**

Select 9-15 credits from the list (see below) for a total of 30 credits of major electives

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