

SUSTAINABILITY SCIENCE AND PRACTICE B.S.

Bachelor of Science - Sustainability Science and Practice

General Education Requirements

Information regarding these requirements can be found in the General Education Section (<http://catalog.umd.edu/academics/general-education-requirements/>) of the catalog.

Summary

| Code | Title | Hours |
|--------------------|---|-----------|
| | Sustainability Knowledge and Science | 27 |
| | Sustainability Theory | 6 |
| | Analysis, Research, and Integrative Thinking | 10 |
| | Sustainability in Practice: Internship | 3 |
| | Sustainability in Practice: Capstone Experience | 3 |
| Total Hours | | 49 |

Degree Specific Credits: 49

Required Cumulative GPA: 2.0

Sustainability Knowledge and Science

| Code | Title | Hours |
|--|---|----------|
| Complete all of the following courses: | | |
| ENSC 105N | Environmental Science | 3 |
| BIOB 160N | Principles of Living Systems | 3 |
| | or BIOB 170N Principles of Biological Diversity | |
| GEO 103N | Introduction to Environmental Geology | 3 |
| CHMY 121N | Introduction to General Chemistry | 4 |
| | or CHMY 141N College Chemistry I | |
| NRSM 281 | Science of Climate Change | 3 |
| ENSC 360 | Applied Ecology | 3 |
| ENST 410 | TEK of Indigenous Peoples | 3 |
| Sustainability Knowledge and Science Electives - Complete 2 of the following courses: | | 6 |
| BIOE 428 | Freshwater Ecology | |
| BIOE 439 | Stream Ecology | |
| BIOE 440 | Conservation Ecology | |
| ENSC 470 | Agroecology | |
| ERTH 303N | Weather and Climate | |
| GEO 318 | Earth's Changing Climate | |
| GEO 327 | Geochemistry | |
| GEO 420 | Hydrogeology | |
| NRSM 210N | Soils, Water and Climate | |
| NRSM 265 | Elements of Ecological Restoration | |
| NRSM 385 | Watershed Hydrology | |
| NRSM 408 | Global Cycles and Climate | |

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|----------|------------------------------------|
| NRSM 415 | Environmental Soil Science |
| NRSM 418 | Ecosystem Climatology |
| NRSM 465 | Foundations of Restoration Ecology |
| STAT 451 | Statistical Methods I |

Total Hours 28

Minimum Required Grade: C-

Sustainability Theory

| Code | Title | Hours |
|---|--|----------|
| Complete the following course: | | |
| ENST 225S | Sustainable Communities | 3 |
| Sustainability Theory Electives - Complete 1 of the following courses: | | 3 |
| COMX 349 | Communication, Consumption, and Climate | |
| ECNS 433 | Economics of the Environment | |
| ENST 310 | Environment Montana: A to Z | |
| ENST 480 | Food Justice and Sustainability | |
| ENST 489S | Environmental Justice Issues & Solutions | |
| Total Hours | | 6 |

Minimum Required Grade: C-

Analysis, Research, and Integrative Thinking

| Code | Title | Hours |
|---|--|-----------|
| Complete all of the following courses: | | |
| ENST 201 | Environmental Info Resources | 3 |
| STAT 216 | Introduction to Statistics | 4 |
| Complete 1 of the following courses: | | 3 |
| BGEN 445 | Sustainability Reporting | |
| ENST 489S | Environmental Justice Issues & Solutions | |
| GPHY 284 | Intro to GIS and Cartography | |
| | or FORS 250 Intro to GIS for Forest Mgt | |
| GPHY 465 | Planning Principles & Processes | |
| GPHY 466 | Environmental Planning | |
| Total Hours | | 10 |

Minimum Required Grade: C-

Sustainability in Practice: Internship

Notes:

- 3 credits are required; 6 are recommended.
- Other internships may be used to complete this requirement at the discretion of the program director.

| Code | Title | Hours |
|---|------------------------------|-------|
| Complete 1 of the following courses: | | |
| ENSC 396 | Supervised Internship | 3 |
| ENST 396 | Supervised Internship (PEAS) | |

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|--------------------|------------------------------|----------|
| ENST 398 | Cooperative Education/Intern | |
| Total Hours | | 3 |

Minimum Required Grade: C-

Sustainability in Practice and Capstone Experience

| Code | Title | Hours |
|---|--------------------------------------|----------|
| Complete one of the following courses: | | 3 |
| ENST 476 | Community Sustainability in Practice | |
| ENST 499 | Senior Thesis/Capstone | |
| Total Hours | | 3 |

Minimum Required Grade: C-