

# ENVIRONMENTAL POLICY/ ENVIRONMENTAL SCIENCE AND SUSTAINABILITY (BA/ MS)

Well-designed public policies are critical in maintaining and restoring a healthy environment. Public policies influence air and water quality, land use, biodiversity, and public health and shape crucial efforts to fight climate change. Our environmental policy program prepares students to craft and implement public policies that promote ecological conservation, environmental justice, and innovation toward a green economy.

With our Accelerated Bachelor's/Master's Program, Loyola SES students can boost their professional credentials and save time and money by completing an undergraduate degree along with a master of science in environmental science and sustainability degree in as little as five years. The economic and academic benefits are substantial.

## Related Programs

### Major

- Environmental Policy (BA) (<https://catalog.luc.edu/undergraduate/environmental-sustainability/environmental-policy/environmental-policy-ba/>)

### Combined

- Environmental Policy/Digital Media and Storytelling (BA/MC) (<https://catalog.luc.edu/undergraduate/accelerated-bachelors-masters-program/environmental-policy-digital-media-storytelling-ba-ms/>)
- Environmental Policy/Global Strategic Communication (BA/MS) (<https://catalog.luc.edu/undergraduate/accelerated-bachelors-masters-program/environmental-policy-global-strategic-communication-ba-ms/>)
- Environmental Policy/Public Policy (BA/MPP) (<https://catalog.luc.edu/undergraduate/accelerated-bachelors-masters-program/environmental-policy-public-policy-ba-mpp/>)

## Curriculum

Environmental Policy students complete coursework spanning a variety of disciplines pertinent to the understanding of environmental issues.

| Code                   | Title   | Hours |
|------------------------|---|-------|
| <b>BA Requirements</b> |   |       |
| <i>Core Curriculum</i> |   |       |
| ENVS 137               | Foundations of Environmental Science I        | 3     |
| ENVS 237               | Foundations of Environmental Chemistry        | 3     |
| ENVS 238               | Foundations of Environmental Science Lab      | 1     |
| ENVS 200               | Environmental Careers and Professional Skills | 1     |
| ENVS 203               | Environmental Statistics                      | 3     |
| ENVS 280               | Principles of Ecology                         | 3     |
| ENVS 286               | Principles of Ecology Lab                     | 1     |
| ENVS 310               | Introduction to Environmental Law & Policy    | 3     |
| PLSC 101               | American Politics                             | 3     |
| PLSC 392               | Environmental Politics                        | 3     |

### *Justice and Ethics Choice*

|                              |  |   |
|------------------------------|--|---|
| Select one of the following: |  | 3 |
| ENVS 284                     | Environmental Justice                      |   |
| PHIL 287                     | Environmental Ethics                       |   |
| THEO 204                     | Religious Ethics and the Ecological Crisis |   |

|                         |                         |   |
|-------------------------|-------------------------|---|
| <i>Economics Choice</i> |                         |   |
| ENVS 335                | Ecological Economics    | 3 |
| or ECON 328             | Environmental Economics |   |

|                                |  |   |
|--------------------------------|--|---|
| <i>Engaged Learning Choice</i> |  |   |
| Select one of the following:   |  | 3 |

|           |   |
|-----------|---|
| ENVS 226  | Science & Conservation of Freshwater Ecosystems           |
| ENVS 267  | Bird Conservation and Ecology                             |
| ENVS 369  | Field Ornithology   |
| ENVS 273  | Energy and the Environment                                |
| ENVS 283  | Environmental Sustainability                              |
| ENVS 340  | Natural History of Belize                                 |
| ENVS 345  | Conservation and Sustainability of Neotropical Ecosystems |
| ENVS 350A | Solutions to Environmental Problems: Water                |
| ENVS 350B | Solutions to Environmental Problems: Biogas               |
| ENVS 350C | Solutions to Environmental Problems: Climate Action       |
| ENVS 350F | Solutions to Environmental Problems: Food Systems         |
| ENVS 391  | Environmental Research                                    |
| ENVS 395  | Environmental Internship                                  |

|                              |   |   |
|------------------------------|---|---|
| <i>Capstone Choice</i>       |   |   |
| Select one of the following: |   | 3 |
| ENVS 390                     | Integrative Seminar                           |   |
| ENVS 391C                    | Independent Environmental Research (Capstone) |   |
| ENVS 395C                    | Environmental Internship (Capstone)           |   |

|                     |    |
|---------------------|----|
| BA Electives (p. 2) | 18 |
|---------------------|----|

See designated elective categories below

|                         |  |
|-------------------------|--|
| <b>MS Curriculum</b>    |  |
| <i>Required Courses</i> |  |

|          |  |   |
|----------|--|---|
| ENVS 401 | Sustainable Systems - Natural Science Perspectives | 3 |
|----------|--|---|

|          |   |   |
|----------|---|---|
| ENVS 402 | Sustainable Systems - Social Science Perspectives | 3 |
|----------|---|---|

|  |  |      |
|--|--|------|
| <i>Choose One of Four Concentrations<sup>1</sup></i> |  | 9-12 |
|--|--|------|

|                                       |   |
|---------------------------------------|---|
| <i>Environmental Law &amp; Policy</i> |   |
| ENVS 410                              | Introduction to Environmental Law & Policy  |
| ENVS 411                              | Natural Resources and Land Use Law & Policy |
| ENVS 412                              | Water Law & Policy                          |
| ENVS 413                              | Energy Law & Policy                         |

|                                       |  |
|---------------------------------------|--|
| <i>Geographic Information Systems</i> |  |
| ENVS 480                              | Introduction to Geographic Information Systems |
| ENVS 481                              | Advanced GIS Applications                      |
| ENVS 482                              | Remote Sensing                                 |

|  |   |
|--|---|
| <i>Sustainable Assessment and Planning</i> |   |
| ENVS 451                                   | Introduction to Sustainability Concepts & Impacts |
| ENVS 452                                   | Sustainability Assessment & Reporting I           |
| ENVS 453                                   | Sustainability Assessment & Reporting II          |
| ENVS 454                                   | Sustainability Plan Development & Reporting       |

### *Sustainable Business*

|  |  |           |
|--|--|-----------|
| ENVS 433   | Introduction to the Circular Economy       |           |
| ENVS 435   | Ecological Economics                       |           |
| ENVS 436   | Design for Circular & Sustainable Business |           |
| ENVS 463   | Sustainable Business Management            |           |
| MS Electives (p. 3)  |  | 6-9       |
| Students will take at least two courses from the list of electives |  |           |
| <b>Total Hours</b>   |  | <b>78</b> |

<sup>1</sup> Students choosing the Geographical Information Systems track must take an additional elective course to meet a total credit hours for the MS.

## BA Electives

| Code  | Title   | Hours |
|---|---|-------|
| <b>Society, Ethics, and Justice</b>               |   |       |
| Select one of the following:                      |   | 3     |
| ENVS 204  | Gender, Health & Environment                        |       |
| ENVS 279  | Climate and History                                 |       |
| ENVS 284  | Environmental Justice                               |       |
| ENVS 297  | North American Environmental History                |       |
| ENVS 298  | Special Topics (with SES approval)                  |       |
| ENVS 338  | Climate Change and Human Health                     |       |
| ENVS 350A   | Solutions to Environmental Problems: Water          |       |
| ENVS 350B   | Solutions to Environmental Problems: Biogas         |       |
| ENVS 350C   | Solutions to Environmental Problems: Climate Action |       |
| ENVS 350F   | Solutions to Environmental Problems: Food Systems   |       |
| ENVS 383  | Human Dimensions of Conservation                    |       |
| ENVS 391  | Environmental Research (with SES approval)          |       |
| ENVS 395  | Environmental Internship (with SES approval)        |       |
| ENVS 398  | Special Topics (with SES approval)                  |       |
| ENVS 399  | Directed Readings (with SES approval)               |       |
| COMM 101  | Public Speaking & Critical Thinking                 |       |
| COMM 260  | Environmental Journalism                            |       |
| COMM 277  | Organizational Communication                        |       |
| COMM 306  | Environmental Advocacy                              |       |
| COMM 322  | Guerilla Media                                      |       |
| COMM 379  | Digital Sustainability                              |       |
| ENGL 288  | Nature in Literature                                |       |
| PHIL 287  | Environmental Ethics                                |       |
| PSYC 277  | Environmental Psychology                            |       |
| SOCL 226  | Science, Technology, & Society                      |       |
| SOCL 252  | Global Inequalities                                 |       |
| SOCL 272  | Environmental Sociology                             |       |
| SOCL 276  | The Sociology and Politics of Food                  |       |
| SOCL 278  | Global Health                                       |       |
| THEO 204  | Religious Ethics and the Ecological Crisis          |       |
| THEO 344  | Theology and Ecology                                |       |
| <b>Policy, Economics, and Resource Management</b> |   |       |
| Select two of the following:                      |   | 6     |
| ENVS 298  | Special Topics (with SES approval)                  |       |
| ENVS 300  | Introduction to Public Health                       |       |

|          |  |
|----------|--|
| ENVS 311 | Natural Resources and Land Use Law & Policy    |
| ENVS 312 | Water Law & Policy                             |
| ENVS 313 | Energy Law & Policy                            |
| ENVS 327 | Food Systems Analysis                          |
| ENVS 332 |  |
| ENVS 333 | Introduction to the Circular Economy           |
| ENVS 335 | Ecological Economics                           |
| ENVS 336 | Design for Circular & Sustainable Business     |
| ENVS 338 | Climate Change and Human Health                |
| ENVS 363 | Sustainable Business Management                |
| ENVS 364 |  |
| ENVS 383 | Human Dimensions of Conservation               |
| ENVS 384 | Conservation Economics                         |
| ENVS 389 | Ecological Risk Assessment                     |
| ENVS 391 | Environmental Research (with SES approval)     |
| ENVS 395 | Environmental Internship (with SES approval)   |
| ENVS 398 | Special Topics (with SES approval)             |
| ENVS 399 | Directed Readings (with SES approval)          |
| ECON 328 | Environmental Economics                        |
| GLST 305 | Globalization and Environmental Sustainability |
| MGMT 201 | Managing People and Organizations              |
| PLSC 354 | Global Environmental Politics                  |

### Methods and Analysis

|                              |  |   |
|------------------------------|--|---|
| Select one of the following: |  | 3 |
| COMM 260                     | Environmental Journalism                         |   |
| ENVS 298                     | Special Topics (with SES approval)               |   |
| ENVS 327                     | Food Systems Analysis                            |   |
| ENVS 352                     | Sustainability Assessment & Reporting I          |   |
| ENVS 353                     | Sustainability Assessment & Reporting II         |   |
| ENVS 354                     | Sustainability Plan Development & Reporting      |   |
| ENVS 380                     | Introduction to Geographic Information Systems   |   |
| ENVS 381                     | Advanced GIS Applications                        |   |
| ENVS 382                     | Remote Sensing                                   |   |
| ENVS 384                     | Conservation Economics                           |   |
| ENVS 388                     |  |   |
| ENVS 389                     | Ecological Risk Assessment                       |   |
| ENVS 391                     | Environmental Research                           |   |
| ENVS 395                     | Environmental Internship                         |   |
| ENVS 398                     | Special Topics (with SES approval)               |   |
| ENVS 399                     | Directed Readings                                |   |
| ANTH 317                     | Ethnographic Methods                             |   |
| BIOL 335                     | Intro to Biostatistics                           |   |
| COMM 231                     | Conflict Management and Communication            |   |
| COMM 234                     | Interviewing for Communication                   |   |
| COMM 277                     | Organizational Communication                     |   |
| COMM 363                     | Research Methods in Advertising/Public Relations |   |
| MARK 320                     | Marketing for Environmental Sustainability       |   |
| SOCL 206                     | Principles of Social Research                    |   |
| SOCL 301                     | Statistics for Social Research                   |   |
| SOCL 302                     | Qualitative Research                             |   |
| STAT 203                     | Introduction to Probability & Statistics         |   |
| STAT 303                     | SAS Programming & Applied Statistics             |   |

**Environmental Electives**

Select two of the following: 6

|                        |   |
|------------------------|---|
| COMM 260               | Environmental Journalism                                  |
| ENVS 204               | Gender, Health & Environment                              |
| ENVS 207               | Plants and Civilization                                   |
| ENVS 215 /<br>BIOL 215 | Ornithology   |
| ENVS 218               | Biodiversity & Biogeography                               |
| ENVS 223               | Soil Ecology  |
| ENVS 224               | Climate & Climate Change                                  |
| ENVS 226               | Science & Conservation of Freshwater Ecosystems           |
| ENVS 227R              | Ecology of the Mediterranean Sea                          |
| ENVS 267               | Bird Conservation and Ecology                             |
| ENVS 273               | Energy and the Environment                                |
| ENVS 274               | Chemistry of the Natural Environment                      |
| ENVS 278               | Hydrology   |
| ENVS 279               | Climate and History                                       |
| ENVS 283               | Environmental Sustainability                              |
| ENVS 297               | North American Environmental History                      |
| ENVS 298               | Special Topics (with SES approval)                        |
| ENVS 300               | Introduction to Public Health                             |
| ENVS 301               | Environmental Health                                      |
| ENVS 303               | Introduction to Epidemiology                              |
| ENVS 311               | Natural Resources and Land Use Law & Policy               |
| ENVS 312               | Water Law & Policy  |
| ENVS 313               | Energy Law & Policy                                       |
| ENVS 319               |   |
| ENVS 320               | Conservation Biology                                      |
| ENVS 322               | Invasive Species  |
| ENVS 323               | Environmental Microbiology                                |
| ENVS 325               | Sustainable Agriculture                                   |
| ENVS 326               | Agroecosystems  |
| ENVS 327               | Food Systems Analysis                                     |
| ENVS 330               | Restoration Ecology                                       |
| ENVS 338               | Climate Change and Human Health                           |
| ENVS 340               | Natural History of Belize                                 |
| ENVS 345               | Conservation and Sustainability of Neotropical Ecosystems |
| ENVS 350A              | Solutions to Environmental Problems: Water                |
| ENVS 350B              | Solutions to Environmental Problems: Biogas               |
| ENVS 350C              | Solutions to Environmental Problems: Climate Action       |
| ENVS 350F              | Solutions to Environmental Problems: Food Systems         |
| ENVS 351               | Introduction to Sustainability Concepts & Impacts         |
| ENVS 352               | Sustainability Assessment & Reporting I                   |
| ENVS 353               | Sustainability Assessment & Reporting II                  |
| ENVS 354               | Sustainability Plan Development & Reporting               |
| ENVS 369               | Field Ornithology   |
| ENVS 380               | Introduction to Geographic Information Systems            |
| ENVS 381               | Advanced GIS Applications                                 |
| ENVS 385               | Introduction to Global Health                             |
| ENVS 387               | Principles of Ecotoxicology                               |

ENVS 388

|  |  |
|--|--|
| ENVS 389   | Ecological Risk Assessment                   |
| ENVS 391   | Environmental Research (with SES approval)   |
| ENVS 395   | Environmental Internship (with SES approval) |
| ENVS 398   | Special Topics (with SES approval)           |
| ENVS 399   | Directed Readings (with SES approval)        |
| ANTH 104   | The Human Ecological Footprint               |
| ANTH 303   | People and Conservation                      |
| BIOL, CHEM, PHYS 300-level courses (with SES approval) |  |

**Total Hours 18****MS Electives**

| Code      | Title  | Hours |
|-----------|--|-------|
| ENVS 420  | Conservation Biology                               |       |
| ENVS 422  | Invasive Species                                   |       |
| ENVS 425  | Sustainable Agriculture                            |       |
| ENVS 426  | Agroecosystems                                     |       |
| ENVS 427  | Food Systems Analysis                              |       |
| ENVS 430  | Restoration Ecology                                |       |
| ENVS 435  | Ecological Economics                               |       |
| ENVS 438  | Climate Change and Human Health                    |       |
| ENVS 451  | Introduction to Sustainability Concepts & Impacts  |       |
| ENVS 452  | Sustainability Assessment & Reporting I            |       |
| ENVS 453  | Sustainability Assessment & Reporting II           |       |
| ENVS 480  | Introduction to Geographic Information Systems     |       |
| ENVS 481  | Advanced GIS Applications                          |       |
| ENVS 482  | Remote Sensing                                     |       |
| ENVS 484  | Conservation Economics                             |       |
| ENVS 487  | Principles of Ecotoxicology                        |       |
| ENVS 488  |  |       |
| ENVS 489  | Ecological Risk Assessment                         |       |
| ENVS 491  | Independent Environmental Research (upon approval) |       |
| ENVS 498  | Special Topics (upon approval)                     |       |
| ENVS 498L | Special Topics with Lab (upon approval)            |       |
| ENVS 499  | Directed Readings (upon approval)                  |       |
| BIOL 495  | Special Topics (Topic: Metagenomics)               |       |
| BIOL 416  | Limnology Lec/Lab                                  |       |
| BIOL 418  | Aquatic Insects Lecture & Laboratory               |       |
| BIOL 470  | Biostats & Exp Design Lec/Lab                      |       |
| MPBH 401  | Environmental Health                               |       |
| MPBH 402  | Public Health Practice and Management              |       |
| MPBH 403  | Introduction to Epidemiology                       |       |
| MPBH 404  | Biostatistics for Health and Biological Science    |       |
| MPBH 407  | Public Health Policy: Concepts and Practice        |       |
| MPBH 409  | Biostatistics I                                    |       |
| MPBH 412  | Intro to Statistical Computing for Public Health   |       |
| MPBH 414  | Introduction to Global Health                      |       |
| MPBH 421  | Biostatistics II                                   |       |
| MPBH 423  | Intermediate Epidemiology                          |       |
| MPP 401   | Analytical Tools in Public Policy                  |       |
| MPP 402   | Cost Benefit Analysis                              |       |

|          |  |
|----------|--|
| MPP 403  | Public Budget and Finance                          |
| MPP 405  | Statistical Methods & Analysis for Public Policy I |
| MPP 406  | Statistical Methods & Analysis Public Policy II    |
| MPP 408  | Political Feasibility Analysis                     |
| SOCL 414 | Statistical Methods Analysis I                     |
| SOCL 415 | Statistical Methods of Analysis II                 |
| STAT 403 | SAS Program & Applied Statistics                   |
| STAT 407 | Statistical Design                                 |
| STAT 436 | Topics in Biostatistics                            |
| ENVS 410 | Introduction to Environmental Law & Policy         |
| ENVS 411 | Natural Resources and Land Use Law & Policy        |
| ENVS 412 | Water Law & Policy                                 |
| ENVS 413 | Energy Law & Policy                                |
| ENVS 432 |  |
| ENVS 433 | Introduction to the Circular Economy               |
| ENVS 436 | Design for Circular & Sustainable Business         |
| ENVS 454 | Sustainability Plan Development & Reporting        |
| ENVS 463 | Sustainable Business Management                    |
| ENVS 464 |  |
| ENVS 483 | Human Dimensions of Conservation                   |
| ENVS 491 | Independent Environmental Research (upon approval) |
| ENVS 498 | Special Topics (upon approval)                     |
| ENVS 499 | Directed Readings (upon approval)                  |
| MPBH 407 | Public Health Policy: Concepts and Practice        |
| MPP 400  | Policy Design and Analysis                         |
| MPP 404  | Public Policy Process                              |
| PSYC 460 | Social Psychological Theory                        |
| PSYC 461 | Attitude and Attitude Change                       |
| PSYC 486 | Methods of Program Evaluation                      |
| SOCL 412 | Qualitative Methods in Social Research             |
| SOCL 446 | Knowledge, Power & Expertise                       |
| SOCL 463 | Sociology & Natural Environment                    |

## Suggested Sequence of Courses

The below sequence of courses is meant to be used as a suggested path for completing coursework. An individual student's completion of requirements depends on course offerings in a given term as well as the start term for a major or graduate study. Students should consult their advisor for assistance with course selection.

### Suggested Sequence of Courses - Research Track

| Course                  | Title                                    | Hours     |
|-------------------------|--|-----------|
| <b>Year One</b>         |  |           |
| <b>Fall</b>             |  |           |
| ENVS 137                | Foundations of Environmental Science I   | 3         |
| PLSC 101                | American Politics                        | 3         |
| <b>Hours</b>            |  | <b>6</b>  |
| <b>Spring</b>           |  |           |
| ENVS 203                | Environmental Statistics                 | 3         |
| ENVS 237                | Foundations of Environmental Chemistry   | 3         |
| ENVS 238                | Foundations of Environmental Science Lab | 1         |
| Justice & Ethics Choice |  | 3         |
| <b>Hours</b>            |  | <b>10</b> |

### Year Two

#### Fall

|              |   |          |
|--------------|---|----------|
| ENVS 200     | Environmental Careers and Professional Skills | 1        |
| ENVS 280     | Principles of Ecology                         | 3        |
| ENVS 286     | Principles of Ecology Lab                     | 1        |
| <b>Hours</b> |   | <b>5</b> |

#### Spring

|                                |  |          |
|--------------------------------|--|----------|
| ENVS 310 or PLSC 392           | Introduction to Environmental Law & Policy or Environmental Politics | 3        |
| Environmental Science Elective |  | 3        |
| Methods and Analysis Elective  |  | 3        |
| <b>Hours</b>                   |  | <b>9</b> |

### Year Three

#### Fall

|                      |  |          |
|----------------------|--|----------|
| ENVS 310 or PLSC 392 | Introduction to Environmental Law & Policy or Environmental Politics | 3        |
| <b>Hours</b>         |  | <b>3</b> |

#### Spring

|  |   |          |
|--|---|----------|
| ENVS 335 or ECON 328                                 | Ecological Economics or Environmental Economics | 3        |
| Environmental Electives                              |   | 3        |
| Policy, Economics, and Resource Management Electives |   | 3        |
| <b>Hours</b>   |   | <b>9</b> |

### Year Four

#### Fall

|   |  |          |
|---|--|----------|
| Engaged Learning Choice                                     |  | 3        |
| 400 Level Policy, Economics, & Resource Management Elective |  | 3        |
| 400 Level Methods & Analysis Elective                       |  | 3        |
| <b>Hours</b>  |  | <b>9</b> |

#### Spring

|   |  |          |
|---|--|----------|
| Capstone Choice   |  | 3        |
| 400 Level Policy, Economics, & Resource Management Elective |  | 3        |
| 400 Level Environmental Science Elective                    |  | 3        |
| <b>Hours</b>  |  | <b>9</b> |

### Year Five

#### Fall

|   |   |          |
|---|---|----------|
| ENVS 402                                | Sustainable Systems - Social Science Perspectives | 3        |
| 400 Level Required Concentration Course |   | 3        |
| 400 Level Required Concentration Course |   | 3        |
| <b>Hours</b>                            |   | <b>9</b> |

#### Spring

|   |  |          |
|---|--|----------|
| ENVS 401                                | Sustainable Systems - Natural Science Perspectives | 3        |
| 400 Level Required Concentration Course |  | 3        |
| 400 Level Required Concentration Course |  | 3        |
| <b>Hours</b>                            |  | <b>9</b> |

### Total Hours

78

**Suggested Sequence of Courses - Professional Track**

| Course  | Title   | Hours     |
|---|---|-----------|
| <b>Year One</b>   |   |           |
| <b>Fall</b>   |   |           |
| ENVS 137  | Foundations of Environmental Science I                                  | 3         |
| PLSC 101  | American Politics   | 3         |
| <b>Hours</b>  |   | <b>6</b>  |
| <b>Spring</b>   |   |           |
| ENVS 203  | Environmental Statistics  | 3         |
| ENVS 237  | Foundations of Environmental Chemistry                                  | 3         |
| ENVS 238  | Foundations of Environmental Science Lab                                | 1         |
| Justice & Ethics Choice                                     |   | 3         |
| <b>Hours</b>  |   | <b>10</b> |
| <b>Year Two</b>   |   |           |
| <b>Fall</b>   |   |           |
| ENVS 200  | Environmental Careers and Professional Skills                           | 1         |
| ENVS 280  | Principles of Ecology   | 3         |
| ENVS 286  | Principles of Ecology Lab   | 1         |
| <b>Hours</b>  |   | <b>5</b>  |
| <b>Spring</b>   |   |           |
| ENVS 310<br>or PLSC 392                                     | Introduction to Environmental Law & Policy<br>or Environmental Politics | 3         |
| Environmental Science Elective                              |   | 3         |
| Policy, Economics, and Resource Management Electives        |   | 3         |
| <b>Hours</b>  |   | <b>9</b>  |
| <b>Year Three</b>   |   |           |
| <b>Fall</b>   |   |           |
| ENVS 310<br>or PLSC 392                                     | Introduction to Environmental Law & Policy<br>or Environmental Politics | 3         |
| Environmental Electives                                     |   | 3         |
| <b>Hours</b>  |   | <b>6</b>  |
| <b>Spring</b>   |   |           |
| ENVS 335<br>or ECON 328                                     | Ecological Economics<br>or Environmental Economics                      | 3         |
| Policy, Economics, and Resource Management Electives        |   | 3         |
| <b>Hours</b>  |   | <b>6</b>  |
| <b>Year Four</b>  |   |           |
| <b>Fall</b>   |   |           |
| Engaged Learning Choice                                     |   | 3         |
| 400 Level Policy, Economics, & Resource Management Elective |   | 3         |
| 400 Level Methods & Analysis Elective                       |   | 3         |
| <b>Hours</b>  |   | <b>9</b>  |
| <b>Spring</b>   |   |           |
| Capstone Choice   |   | 3         |
| 400 Level Policy, Economics, & Resource Management Elective |   | 3         |
| 400 Level Environmental Science Elective                    |   | 3         |
| <b>Hours</b>  |   | <b>9</b>  |
| <b>Year Five</b>  |   |           |
| <b>Fall</b>   |   |           |
| ENVS 402  | Sustainable Systems - Social Science Perspectives                       | 3         |
| 400 Level Required Concentration Course                     |   | 3         |

|   |  |           |
|---|--|-----------|
| 400 Level Required Concentration Course |  | 3         |
| <b>Hours</b>                            |  | <b>9</b>  |
| <b>Spring</b>                           |  |           |
| ENVS 401                                | Sustainable Systems - Natural Science Perspectives | 3         |
| 400 Level Required Concentration Course |  | 3         |
| 400 Level Required Concentration Course |  | 3         |
| <b>Hours</b>                            |  | <b>9</b>  |
| <b>Total Hours</b>                      |  | <b>78</b> |

## School of Environmental Sustainability Graduation Requirements

All SES students are required to complete a foreign language requirement and a writing intensive requirement. The SES language requirement can be fulfilled by 1) earning college credit at the 102-level or above; or 2) demonstrating proficiency via the SES foreign language proficiency examination. The SES writing intensive requirement is fulfilled by successfully completing two Loyola WI courses (max of one per semester). Writing intensive courses have a "W" in the section number.

## Additional Undergraduate Graduation Requirements

All Undergraduate students are required to complete the University Core, at least one Engaged Learning course, and UNIV 101. SCPS students are not required to take UNIV 101. Nursing students in the Accelerated BSN program are not required to take core or UNIV 101. You can find more information in the University Requirements (<https://catalog.luc.edu/undergraduate/university-requirements/>) area.

## Learning Outcomes

- Describe the need for government intervention and the policy process. [BA]
- Explain the major US federal environmental laws and international agreements. [BA]
- Recognize the role of state and local innovation in environmental policy. [BA]
- Engage in environmental policy advocacy, development, and implementation. [BA]
- Evaluate the effectiveness of the policy toward environmental sustainability. [BA]
- Deepen your understanding of complex socio-ecological systems and their connection with sustainable development goals. [MS]
- Increase your ability to make accurate and ethical evidence-based decisions from scientific literature. [MS]
- Expand your capacity to communicate environmental science and sustainability issues to the scientific community, professional colleagues, policy makers, and the general public. [MS]
- Demonstrate competence of in-depth knowledge and skills through completion of an original research project and thesis. [MS]

## SES Shared Learning Outcomes

All SES majors share the following Program Learning Objectives, in addition to their unique major-specific Program Learning Objectives:

1. Articulate the foundational principles of natural and social sciences and humanities essential to solving environmental problems.
2. Critically evaluate the accuracy and credibility of information relating to environmental topics.
3. Employ knowledge and skills to design and implement solutions that contribute to a just and sustainable world.
4. Exemplify the values of environmental and social justice through actions to care for our common home and one another.