ARTS MANAGEMENT
The following two courses:
- SPE-ART 163 Art Worlds: Management, Markets, and Policy
- SPE-ART 236 Music Industry I
- SPE-ART 241 Community Engagement in the Arts
- SPE-ART 336 Music Industry III
- SPE-ART 405 Programming in the Performing Arts
- SPE-ART 410 Artists, Galleries and Collectors
- SPE-ART 411 Auditorium Management
- SPE-ART 412 Creative Thinking Strategies for Arts Management
- SPE-ART 418 Theatre and Dance Management
- SPE-ART 422 IT Applications for the Arts
- SPE-ART 426 Art and Social Change
- SPE-ART 439 Fund Development for the Arts
- SPE-ART 450 Contemporary Topics in Arts Administration (repeatable with different topics)
- SPE-ART 459 Public Policy and the Arts
- SPE-ART 464 The Economics and Administration of Arts Organizations
- SPE-ART 482 Overseas Topics in Arts Management (see advisor for policy)
- SPE-ART 236 Managing and Leading Organizations
- SPE-ART 246 Elements of Governmental and Nonprofit Financial Accounting Cycles (P: SPE-ART 186)
- SPE-ART 237 Human Resource Management in the Public Sector
- SPE-ART 377 Legal Process and Contemporary Issues in America
- SPE-ART 438 Mass Media and Public Affairs
- SPE-ART 458 Fund Development
- SPE-ART 482 Overseas Topics in Public Affairs (approved topics only; consult SPE-ART advisor; repeatable with different topics)
- AADM-Y 412 Opera Management

List B:
- FOLK-F 364 Children’s Folklore
- FOLK-F 402 Traditional Arts Indiana
- MSCH-A 347 Media Promotion and Marketing in Telecommunications
- MSCH-C 207 Introduction to Media Industry and Management
- MSCH-M 330 Production Management
- MSCH-R 321 Principles of Public Relations
- MSCH-R 431 Public Relations for Nonprofits
- MUS-U 300 Introduction to Music Entrepreneurship
- MUS-U 315 Arts Education and Outreach
- MUS-U 340 Practicum in Music Entrepreneurship
- MUS-U 413/2313 Legal Aspects of the Music Industry

EDUCATION POLICY
Joint minor with O’Neill and School of Education.
At least nine credits must be at the 300-400 level.
All courses must have minimum grade of C.
The following two courses:
- EDUC-A 308 Legal Issues for Secondary Teachers
- EDUC-H 200 Introduction to Education Policy
One of the following courses:
- EDUC-H 205 Introduction to Educational Thought
- EDUC-H 340 Education and American Culture
- LAT-S 380 Latino Education Across the Americas
- SOC-S 312 Education and Society
One of the following courses:
- SPE-V 236 Managing and Leading Organizations
- SPE-V 263 Public Management
- SPE-V 336 Managing External Collaborations and Networks (P: SPE-V 185)
- SPE-V 362 Nonprofit Management and Leadership
- SPE-V 373 Human Resource Management in the Public Sector
- SPE-V 412 Leadership and Ethics
- SPE-V 443 Managing Workforce Diversity
One of the following courses:
- SPE-V 348 Management Science (P: SPE-V-K 300, MATH-M 025 or MATH-M 118)
- SPE-V 361 Financial Management (P: SPE-V 246 or BUS-A 201)
- SPE-V 370 Research Methods and Statistical Modeling (P: SPE-V-K 300)
- SPE-V 374 Intermediate Public Budgeting & Finance (P: SPE-V 186)
- SPE-V 375 Performance Measurement and Program Evaluation
- SPE-V 401 Financial and Cost Benefit Analysis (P: SPE-V 202)
- SPE-V 449 Senior Policy Seminar
OR other courses approved by the minor oversight committee

ENVIRONMENTAL AND SUSTAINABILITY STUDIES
Joint minor with O’Neill and College of Arts and Sciences.
Minor requires 18 credit hours.
At least nine credits must be at 300-400 level.
At least nine credits must be completed on Bloomington campus.
All courses must have minimum grade of C-. 5.19
BS in Environmental Science majors are not eligible for this minor.
For detailed explanation of minor requirements, including courses on Lists A and B and concentration areas, see College of Arts and Sciences bulletin www.indiana.edu/~bulletin/iub/?

Lead advisor for minor is Rebecca Butorac (rbutorac@indiana.edu).
- One introductory sustainability course on List A.
- One upper-level human environment systems course from List B.
- Minimum 12 credit hours in one of the following concentration areas:
  - Sustainable Food Systems
  - Sustainable Energy, Resources, and Climate
  - Environmental Ethics and Justice
  - Biodiversity and Sustainability
  - Sustainability Individualized Program

ENVIRONMENTAL MANAGEMENT
The following **three** courses:
- SPEA-E 183 Environment & People
- SPEA-E 272 Introduction to Environmental Sciences (R: SPEA-E 183)
- SPEA-E 363 Environmental Management (R: SPEA-E 183)

One of the following courses:
- SPEA-E 311 Introduction to Risk Assessment and Risk Communication
- SPEA-E 340 Environmental Economics and Finance
- SPEA-E 465 Environmental Management in the Tropics
- SPEA-E 466 International and Comparative Environmental Policy
- SPEA-E 476 Environmental Law and Regulation

One additional courses from the above list or the following list:
- SPEA-E 325 Computing for Environmental Scientists
- SPEA-E 355 Introduction to Limnology
- SPEA-E 375 Techniques in Environmental Science
- SPEA-E 400 Topics in Environmental Studies (repeatable with different topics)
- SPEA-E 410 Introduction to Environmental Toxicology
- SPEA-E 411 Introduction to Groundwater Hydrology
- SPEA-E 412 Risk Communication
- SPEA-E 417 Fundamentals of Sustainable Agriculture
- SPEA-E 419 Applied Remote Sensing of the Environment
- SPEA-E 422 Urban Forest Management
- SPEA-E 431 Water Supply and Wastewater Treatment
- SPEA-E 440 Wetlands: Ecology and Management (P: SPEA-E 272)
- SPEA-E 451 Air Pollution and Control
- SPEA-E 452 Solid and Hazardous Waste Management
- SPEA-E 456 Lake and Watershed Management
- SPEA-E 457 Introduction to Conservation Biology
- SPEA-E 460 Fisheries and Wildlife Management Laboratory
- SPEA-H 316 Environmental Health Science
- SPEA-V 401 Financial and Cost-Benefit Analysis (P: SPEA-V 202)
- SPEA-V 419 Food Systems and Community Resilience
- SPEA-V 435 Negotiation and Alternative Dispute Resolution
- SPEA-V/V 482 Overseas Topics in Public Affairs (approved topics only; consult SPEA advisor; repeatable with different topics)

ENVIRONMENTAL SCIENCE
Joint minor with O’Neill and College of Arts and Sciences.
All courses must have minimum grade of C-.
It is recommended that students have taken MATH-M 119 or higher and
CHEM-C 117 or higher (or equivalents).

One of the following courses:
- GEOG-G 208 Environment and Society
- SPEA-E 272 Introduction to Environmental Sciences (R: SPEA-E 183)

Four additional courses; at least three must be at the 300-400 level:
- See BSES website for current list of approved courses http://www.indiana.edu/~bses/curriculum/index.php. Only courses in section III.2. Environmental Science Courses are approved for the minor.
- Selection of these four courses should be done in consultation with the environmental science faculty or BSES director.
- OR other courses approved by the BSES program director

ENVIRONMENTAL SCIENCE AND HEALTH
The following **three** courses:
- SPEA-E 183 Environment & People
- SPEA-E 272 Introduction to Environmental Sciences (R: SPEA-E 183)
- SPEA-H 316 Environmental Health Science (P: SPEA-H 124 or permission of instructor)

Two of the following courses:
- SPEA-E 311 Introduction to Risk Assessment and Risk Communication
- SPEA-E 316 Insects and the Environment
- SPEA-E 324 Controversies in Environmental Health
- SPEA-E 375 Techniques of Environmental Science
- SPEA-E 410 Introduction to Environmental Toxicology
- SPEA-E 431 Water Supply and Wastewater Treatment
- SPEA-E 451 Air Pollution and Control
- SPEA-E 452 Solid and Hazardous Waste Management
- SPEA-E/V 482 Overseas Topics in Public Affairs (approved topics only; consult SPEA advisor; repeatable with different topics)
- OR other courses in environmental science and health approved by an O’Neill advisor

HEALTHCARE MANAGEMENT AND POLICY
The following **three** courses:
- SPEA-H 124 Overview of the US Healthcare System
- SPEA-H 324 Health Policy (P: SPEA-H 124 or permission of instructor)

One of the following courses:
- SPEA-H 316 Environmental Health Science (P: SPEA-H 124 or permission of instructor)
- SPEA-H 341 Legal Aspects of Health Care Administration (P: SPEA-H 124 or permission of instructor)
- SPEA-H 342 Community Health Education (P: SPEA-H 124 or permission of instructor)
- SPEA-H 354 Health Economics (P: SPEA-H 124 and ECON-E 201 or permission of instructor)
- SPEA-H 374 Health Management Ethics (P: SPEA-H 124 or permission of instructor)
- SPEA-H 401 Strategic Planning in Health Organizations (P: SPEA-H 353 or concurrent)
- SPEA-H 402 Hospital Administration (P: SPEA-H 124 or permission of instructor)
- SPEA-H 403 Pharmaceutical Industry & Public Policy (P: SPEA-H 124 or permission of instructor)
- SPEA-H 411 Chronic and Long-Term Care Administration (P: SPEA-H 124 or permission of instructor)
- SPEA-H 432 Healthcare Marketing
- SPEA-H 455 Topics in Public Health (May be repeated)
- SPEA-H 456 Healthcare Reimbursement (P: SPEA-H 353 or concurrent)

One of the following courses:
- Any course not selected from the list above
- SPEA-V 373 Human Resource Management in the Public Sector
- BUS-J 375 – Strategic Management
- BUS-P 300 (or P-304 Honors) – Operations Management
- ECON-E321 Intermediate Microeconomics
- BIOT-T 312 Societal Issues in Biotechnology
- SOC-S 358 Social Issues in Health and Medicine
- STAT-S 303 Applied Statistical Methods for the Life Sciences
- SPH-B 403 Public Health Program Planning

HUMAN RESOURCE MANAGEMENT
The following **three** courses:
- SPEA-V 236 Managing and Leading Organizations
- SPEA-V 373 Human Resource Management in the Public Sector
- SPEA-V 477 Strategic Human Resource Management (P: SPEA-V 373)

Two of the following courses:
- SPEA-V 432 Labor Relations in the Public Sector
- SPEA-V 435 Negotiation and Alternate Dispute Resolution
- SPEA-V 443 Managing Workforce Diversity
- SPEA-V 450 Contemporary Issues in Public Affairs (approved topics only; consult SPEA advisor)
Three courses:
- SPEA-V 463 Interpersonal Relations in the Workplace
- SPEA-V 476 Compensation Strategy and Systems (P: SPEA-V 373)
- SPEA-V 478 Employment Law for Human Resource Management (P: SPEA-V 184)
- SPEA-V 479 Employee Recruitment and Selection in the Public Sector (P: SPEA-V 373)
- SPEA-V 482 Overseas Topics in Public Affairs (approved topics only; consult an O’Neill advisor; repeatable with different topics)

**INFORMATION SYSTEMS**
The following three courses:
- SPEA-V 261 Technology in Public Affairs
- SPEA-V 369 Managing Information Technology
- SPEA-V 475 Database Management Systems (P: SPEA-V 261, SPEA-V 369, or equivalent)

Two of the following courses:
- SPEA-E325 Computing for Environmental Scientists
- SPEA-E 418 Vector-based GIS
- SPEA-E 419 Applied Remote Sensing of the Environment
- SPEA-V 348 Management Science
- SPEA-V 450 Contemporary Issues in Public Affairs (approved topics only; consult SPEA advisor; repeatable with different topics)
- SPEA-V 461 Computer Applications in Public Affairs
- SPEA-V 465 GIS for Public and Environmental Affairs
- SPEA-V 482 Overseas Topics in Public Affairs (approved topics only; consult SPEA advisor)

**LAW AND PUBLIC POLICY**
The following two courses:
- SPEA-V 184 Law and Public Affairs
- SPEA-V 339 Legal History and Public Policy (P: SPEA-V 184)

Three of the following courses:
- SPEA-E 476 Environmental Law and Regulation
- SPEA-H 341 Legal Aspects of Health Care Administration (P: SPEA-H 124 or permission of instructor)
- SPEA-V 340 Urban Government Administration
- SPEA-V 377 Legal Processes and Contemporary Issues in America
- SPEA-V 405 Public Law and the Legislative Process
- SPEA-V 406 Public Law and the Electoral Process
- SPEA-V 407 Public Law and Government Relations
- SPEA-V 424 Environmental Law, Justice, and Politics
- SPEA-V 425 Homeland Security: Policy and Practice
- SPEA-V 435 Negotiation and Alternative Dispute Resolution
- SPEA-V 450 Contemporary Issues in Public Affairs (approved topics only; consult SPEA advisor; repeatable with different topics)
- SPEA-V 478 Employment Law for Human Resource Management (P: SPEA-V 184)
- SPEA-V 482 Overseas Topics in Public Affairs (approved topics only; consult an O’Neill advisor; repeatable with different topics)

**NONPROFIT MANAGEMENT**
One of the following courses:
- SPEA-V 161 Urban Problems and Solutions
- SPEA-V 181 U.S. Policy & Administration
- SPEA-V 182: Policy-making around the World: Comparative and International Approaches

The following course:
- SPEA-V 362 Nonprofit Management and Leadership

**POLICY STUDIES**
One of the following courses:
- SPEA-V 181 US Policy & Administration
- SPEA-V 182: Policy-making around the World: Comparative and International Approaches
- SPEA-V 184: Law & Public Affairs

Four of the following courses:
- SPEA-V 370 Research Methods and Statistical Modeling (P: SPEA-K 300)
- SPEA-V 379 Performance Measurement and Program Evaluation
- SPEA-V 386 Case Studies for Policy Analysis
- SPEA-V 401 Financial and Cost-Benefit Analysis (P: SPEA-V 202)
- SPEA-V 424 Environmental Law, Justice, and Politics
- SPEA-V 425 Homeland Security: Policy and Practice
- SPEA-V 449 Senior Policy Seminar
- SPEA-V 450 Contemporary Issues in Public Affairs (approved topics only; consult an O’Neill advisor; repeatable with different topics)
- SPEA-V 482 Overseas Topics in Public Affairs (approved topics only; consult an O’Neill advisor; repeatable with different topics)

**PUBLIC AND ENVIRONMENTAL AFFAIRS**
This minor is for non-O’Neill students only.
One of the following courses:
- SPEA-V 161 Urban Problems and Solutions
- SPEA-V 181 US Policy & Administration
- SPEA-V 182: Policy-making around the World: Comparative and International Approaches

The following course:
- SPEA-V 183 Environment and People

Three of the following courses:
- SPEA-E 272 Introduction to Environmental Science (R: SPEA-E 183)
- SPEA-E 400 Topics in Environmental Science (repeatable with different topics)
- SPEA-V 184 Law and Public Affairs
- SPEA-V 236 Managing and Leading Organizations
- SPEA-V 263 Public Management
- SPEA-V 336 Managing External Collaboration and Networks (P: SPEA-V 185)
- SPEA-V 373 Human Resources Management in the Public Sector
- SPEA-V 424 Environmental Law, Justice, and Politics
- SPEA-V 425 Homeland Security: Policy and Practice
- SPEA-V 432 Labor Relations in the Public Sector (P: SPEA-V 373)
- SPEA-V 450 Contemporary Issues in Public Affairs (approved topics only; consult an O’Neill advisor; repeatable with different topics)
- SPEA-V 482 Overseas Topics in Public Affairs (approved topics only; consult an O’Neill advisor; repeatable with different topics)

**PUBLIC FINANCE**
The five following courses:
- SPEA-V 186 Introduction to Public Budgeting and Finance for Public Affairs
- SPEA-V 346 Introduction to Government Accounting and Financial Reporting (P: SPEA-V 246)
- SPEA-V 361 Financial Management (P: SPEA-V 246 or BUS-A 201)
- One more approved course in consultation with an O’Neill advisor, including topics courses such as SPEA-V 441, V 442, V 450, and V 482
(approved topics only; consult an O'Neill advisor; repeatable with different topics)

PUBLIC MANAGEMENT
One of the following courses:
- SPEA-V 161 Urban Problems and Solutions
- SPEA-V 181: US Policy & Administration
- SPEA-V 182: Policy-making around the World: Comparative and International Approaches

The following course:
- SPEA-V 185 Management of Public Problems and Solutions

Three of the following courses:
- SPEA-V 184 Law and Public Affairs
- SPEA-V 236 Managing and Leading Organizations
- SPEA-V 263 Public Management
- SPEA-V 336 Managing External Collaboration and Networks (P: SPEA-V 185)
- SPEA-V 340 Urban Government Administration
- SPEA-V 341 Nonprofit Management and Leadership
- SPEA-V 368 Managing Government Operations (P: SPEA-V 348)
- SPEA-V 369 Managing Information Technology
- SPEA-V 373 Human Resources Management in the Public Sector
- SPEA-V 374 Intermediate Public Budgeting & Finance (P: SPEA-V 186)
- SPEA-V 432 Labor Relations in the Public Sector (P: SPEA-V 373)
- SPEA-V 424 Environmental Law, Justice, and Politics
- SPEA-V 435 Negotiation and Alternative Dispute Resolution
- SPEA-V 443 Managing Workforce Diversity
- SPEA-V 450 Contemporary Issues in Public Affairs (approved topics only; consult an O'Neill advisor; repeatable with different topics)
- SPEA-V 463 Interpersonal Relations in the Workplace
- SPEA-V 465 Geographic Information Systems (GIS) for Public and Environmental Affairs
- SPEA-V 475 Database Management Systems (P: SPEA-V 261; SPEA-V 369, or equivalent)
- SPEA-V 482 Overseas Topics in Public Affairs (approved topics only; consult an O'Neill advisor; repeatable with different topics)

UBER PLANNING AND COMMUNITY DEVELOPMENT
The two following courses:
- SPEA-V 161 Urban Problems and Solutions
- SPEA-V 365 Urban Development and Planning (P: SPEA-V 161)

Three of the following courses; at least one course must be outside O'Neill:
- GEOG-G 231 Urban Geography
- GEOG-G 314 Economic Geography
- GEOG-G 415 Advanced Urban Geography
- HIST-A 300 Issues in United States History
- HIST-A 347 American Urban History
- HIST-W 125 Cities and History
- POLS-Y 103 Introduction to American Politics
- POLS-Y 306 State Politics in the United States
- SOC-S 215 Social Change
- SOC-S 309 The Community
- SOC-S 339 Sociology of Media
- SPEA-V 226 Managing Emergency Services
- SPEA-V 275 Introduction to Emergency Management
- SPEA-V 340 Urban Government Administration
- SPEA-V 412 Leadership and Ethics
- SPEA-V 421 Metropolitan Development
- SPEA-V 422 Transportation Policy Analysis
- SPEA-V 424 Environmental Law, Justice, and Politics
- SPEA-V 425 Homeland Security: Policy and Practice
- SPEA-V 450 Contemporary Issues in Public Affairs (approved topics only; consult an O'Neill advisor; repeatable with different topics)
- SPEA-V 462 Community Development
- SPEA-V 482 Overseas Topics in Public Affairs (approved topics only; consult an O'Neill advisor; repeatable with different topics)

WATER RESOURCES, SCIENCE, POLICY, AND MANAGEMENT
(1) Take one of the following core courses:
- GEOG-G 250/347 Water Security and Sustainability
- GEOG-G 118 Sustainability: Water Resources
- SPEA-E 260 Introduction to Water Resources

(2) Take at least three credits from each of categories 1-3 below.

Category 1: Physical hydrology & the water cycle (at least 3 credits)
- GEOG-G 304 Physical Climatology
- GEOG-G 451 Physical Hydrology
- GEOG-G 467 Ecohydrology
- EAS-X 429 Field Geology Rocky Mountains (Specific concentration is E. Environmental Geology and Hydrology, 6 cr.)
- EAS-E 451 Principles of Hydrogeology
- EAS-A 466 Hydrometeorology

Category 2: Water and ecosystems (at least 3 credits)
- SPEA-E 355 Introduction to Limnology*
- SPEA-E 440 Wetland Ecology and Management
- SPEA-E 455 Limnology*
- SPEA-E 443 Habitat Analysis – Aquatic
  * students can only get credit for one of SPEA-E 355 or SPEA-E 455

Category 3: Water and human systems (at least 3 credits)
- GEOG-G 341 Ecological Restoration
- GEOG-G 368 Water in the Midwest
- GEOG-G 453 Water and Society
- GEOG-G 461 Human Dimensions of Global Environmental Change
- SPEA-E 456 Lake and Watershed Management
- SPH-O 305 Integrated Resource Management

(3) Complete three additional credits
To meet the total requirement of 15 credit hours, 3 additional credit hours are required. These 3 credits can be satisfied by taking any of the courses from the core or Categories 1-3 above. Additionally, the following courses that may be used toward the total credit requirement to provide breadth or depth of understanding in the area of Water Resources Science, Planning, and Management.
- BUS-L 302 Sustainability Law & Policy
- GEOG-G 336 Environmental Remote Sensing
- GEOG-G 350 Field Methods in Physical Geography
- GEOG-G 439 GIS and Environmental Analysis
- GEOG-G 444 Climate Change Impacts
- GEOG-G 455 Climate Change Impacts
- EAS-X 329 Introductory Field Experience in Environmental Science
- EAS-E 415 Principles of Geomorphology
- EAS-E 476 Climate Change Science
- PHYS-P 310 Environmental Physics
- SPEA-E 340 Environmental Economics and Finance
- SPEA-E 363 Environmental Management
- SPEA-E 375 Techniques of Environmental Science
- SPEA-E 472 Fluid Mechanics
- SPEA-E 502 Water Quality Modeling
- SPEA-E 412 Risk Communication
- SPEA-E 431 Water Supply and Wastewater Treatment
- SPEA-E 460 Fisheries and Wildlife Management
- SPEA-E 476 Environmental Law and Regulation
- SPH-O 244 Natural History
- SPH-O 310 Ecosystem Management
- SPH-O 343/CLLC-L 300 Fundamentals of Sustainable Agriculture
- SPH-V 214 Environmental Regulations and Code Compliance
- SPH-V 443 Environmental Sampling and Analysis

(4) Additional Requirements:
- At least 9 credit hours in the minor must be completed at the 300-400 level.
- At least 9 credit hours must be completed on the Bloomington campus.
- GPA > 2.00 in minor courses
- Substitutions for core and category 1-3 courses for extenuating circumstances may be made with approval of the program director