

**The Ohio State University**  
**John Glenn College of Public Affairs Minor:**  
**Science and Engineering in the Public Interest (SCIENPP-MN)**

The John Glenn College of Public Affairs  
OSU Battelle Center for Science, Engineering, & Public Policy  
Page Hall, 1810 College Road  
<http://glenn.osu.edu> <http://battellecenter.org>

The *Science and Engineering in the Public Interest* Minor prepares students to act, innovate, and lead in the public interest. The minor provides students with foundational knowledge about public affairs and science, engineering, and technology (SET) policy, while building skills in systems thinking and innovation, interdisciplinary collaboration, strategic policy and science communication, and specific subject matter expertise.

The *Science and Engineering in the Public Interest* minor consists of 15-16 semester credit hours distributed as follows:

### **Survey Course (1 course; 3 CH)**

Choose one of the following:

- PUBAFRS 2620 - Science, Engineering and Technology for Policy and the Public Interest (3)
- PUBAFRS 2110 - Introduction to Public Affairs (3)

### **Science and Technology Policy Domains (2 courses; 6 CH)**

Choose 2 courses within **one** of these science and technology policy domains. (Please note that some courses have prerequisites)

#### **Air & Space Policy**

- AVN 200 - Introduction to the Aviation Industry
- AVN 3200 - Aviation Regulations
- SLAVIC 3333 - The Soviet Space Age
- PUBAFRS 3620 - US Space Policy & the Global Space Economy
- AVN 3700 - Building a Diverse Workforce in Aviation

#### **Energy & Environmental Policy**

- ARCH 2220 - Sustainability and the Built Environment
- ENR 2300 - Society and Natural Resources
- PHILOS 2342 - Environmental Ethics
- CRPLAN 2620 - Planning for Future Cities
- HISTORY 2700 - Global Environmental History
- CRPLAN 3000 - Planning Resilient Environments
- ENVENG 3200 - Fundamentals of Environmental Engineering
- ENVENG 3600 - Technology Innovation for Sustainability
- ENR 3200 - Environmental & Natural Resources Policy
- ENR 3280 - Water Quality Management
- CRPLAN 3400 - Planning for Sustainable Economic Development
- FABENG 3400.01 - Sustainability of the Food Supply Chain
- EARTHSC 3411 - Water Security for the 21<sup>st</sup> Century
- SOCIOL 3460 - Environmental Justice
- CRPLAN 3550 - Environmental Planning & Policy for a Sustainable Future
- HISTORY 3700 - American Environmental History
- GEOG 3900 - Global Climate Change: Causes & Consequences
- BUSMGT 4253 - Sustainable Operations
- AEDECON 4320 - Energy, the Environment, & the Economy
- AEDECON 4597 Population, Food & the Environment
- CBE 5772 - Principles of Sustainable Engineering
- ENVENG 4600 Assessment for Human Rights & Sustainability
- ENVENG 5170 Sustainability and the Circular Economy
- GEOG 5301 Sustainable Transportation
- ENR/FABENG 5310 Ecological Engineering and Science
- ENR 5451 Water Policy and Governance
- MATSCEN 5572 Intro to Nuclear Science and Engineering
- GEOG 5803 Sustainable Energy Geographies

#### **Technology & Human Health Policy**

- HISTORY 2703 History of Public Health, Medicine and Disease
- PUBHEHS 3310 Current Issues in Global Environmental Health
- PUBHEHS 3320 Fundamentals of Environmental Health Risk Assessment
- PUBHEHS 3330 Global Pandemics and Public Health
- HWIH 3490 Technology-Based Health Promotion Strategies
- CRPLAN 3500 The Socially Just City
- PUBHHMP 3610 United States & International Health Care
- HISTORY 3701 History of American Medicine
- PUBHEHS 4325 Climate Change and Human Health
- PUBHEPI 4410 Social Epidemiology
- EARTHSC 5203 Geo-environment and Human Health

- PUBHEHS 5395/ENVENG 5195 Engineering Design for Environmental Health
- PUBAFRS 5890 US Food Policy
- PUBAFRS/ AEDECON 5900 Food System Planning and the Economy

### **Cyber & Data Privacy & Policy**

- PUBAFFRS 3220 Citizenship in the Age of Big Data: Law, Technology, and Social Justice
- CSE 2501 Social, Ethical, and Professional Issues in Computing
- CSE 5539 - Intermediate Studies in Artificial Intelligence
- ISE 3700 Cognitive Engineering Systems
- HISTORY 3702 Digital History
- INTSTDS 3702 Herding Cyber Cats: Information Security Management
- POLSCI 3785 Data Science for the Social and Behavioral Sciences
- PUBAFRS 4040 Public Sector Data Sciences and Management
- CSE 4471 Information Security
- ISE 5194 Human Centered Machine Learning

### **Upper Level Courses (2 courses; 6-7 CH)**

Choose two of the following:

- PUBAFRS/ENVENG 5600 Science, Engineering, and Public Policy
- PUBAFRS 5610 Innovation, Policy, and the Global Economy
- PUBAFRS 5620 Rapid Innovation for Public Impact (4 CH)
- PUBAFRS 5750 The Business-Government Relationship
- PUBAFRS 5770 Risk and Decision Analysis

### **SEPI Minor Program Guidelines:**

Credit hours required: A minimum of 15 credit hours. 1000-level courses shall not be counted in the minor. At least 6 credits must upper-division courses (3000-level or above) as determined by the John Glenn College of Public Affairs.

Transfer and EM credit hours allowed: A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

Overlap with GE: A student is permitted to overlap up to 6 credit hours between the GE and the minor.

Overlap with the major and additional minor(s): Each minor completed must contain a minimum of 12 hours distinct from the major and/or additional minors (i.e., minors that require more than 12 hours may overlap those hours beyond 12 with the major or another minor).

Grades required:

- Minimum C- for a course to be listed on the minor
- Minimum 2.00 cumulative point-hour ration required for the minor
- Course work graded Pass/Non-pass cannot count on the minor
- No more than 3 hours of courses graded Satisfactory/Unsatisfactory may count toward the minor

X193 credit: No more than 3 credit hours.

Declaring the minor: Students should see their assigned academic advisor to declare the minor prior to the filing of the graduation application. Students do not need the approval of the John Glenn College of Public Affairs to declare the minor.

Approval of Coursework:

Initial approval of the minor coursework: Students who complete the minor following the guidelines on this sheet need only verify with their academic advisor that the minor appears complete on the Degree Audit Report. No approval from the John Glenn College of Public Affairs is required.

Approval for courses not listed on this form to apply to the minor program: Students must obtain the approval of the John Glenn College of Public Affairs to apply courses not listed on this form toward the SEPI minor. Please [visit this website](#) to request approval.

College of Arts and Sciences Curriculum and Assessment Services  
306 Dulles Hall, 230 Annie and John Glenn Ave  
<http://artsandsciences.osu.edu>

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