Master of Arts in the Field of International Science and Technology Policy

Scientific and technological advances provide the basis of international competitiveness and account for the bulk of national growth and the improvement of the quality of life around the world. The ability to create, adapt, and adopt new technologies defines modern societies. In today’s global environment, the need for innovation is essential for solving societal problems and staying ahead of competition. Developments in information technology, space exploration, genetic modification, and advances in material science are governed and shaped by institutions that set science and technology policy.

Requirements

Specific admission requirements are shown on the Graduate Program Finder. (http://www.gwu.edu/all-graduate-programs)

Prerequisite: a bachelor’s degree in a social, life, or physical science, or in engineering

The following requirements must be fulfilled:

Core Field (9 credits):
- IAFF 6141 International Science and Technology Policy Cornerstone
- IAFF 6159 ISTP Capstone Project
- IAFF 6516 Independent Study and Research

Concentration Field (15 credits):
At least two of the following:
- IAFF 6142 Technology Creation/Diffusion
- IAFF 6145 U.S. Space Policy
- IAFF 6146 Space Law
- IAFF 6148 Special Topics in Space Policy
- IAFF 6151 Environmental Policy
- IAFF 6153 Science, Technology, and National Security
- IAFF 6158 Special Topics in International Science and Technology Policy
- ECON 6255 Economics of Technological Change

Remaining courses selected from existing Elliott School concentration fields or designed by the student with approval of the program director

Analytical competency requirement (6 credits):
- One or more course from sections A, B, or C

Section A. Policy Analysis and Public Administration
- PPPA 6051 Governmental Budgeting
- PPPA 6053 Financial Management for Public and Nonprofit Organizations
- PPPA 6016 Public and Nonprofit Program Evaluation
- PPPA 6002 Research Methods and Applied Statistics

Section B. Economic Theory and Concepts
- ECON 6217 Survey of Economics I
- ECON 6218 Survey of Economics II
- Other relevant courses offered by the Economics Department (e.g. microeconomics, industrial organization, environmental economics, regional economics)

Section C. Research Methods
- STAT 1053 Introduction to Statistics in Social Science
- STAT 1111 Business and Economic Statistics I
- STAT 2112 Business and Economic Statistics II
- STAT 2118 Regression Analysis
- STAT 2183 Intermediate Stat Lab/Packages
- PPPA 6013 Econometrics—Policy Research I
- PPPA 6014 Economics in Policy Analysis
- PSC 6103 Approaches to Public Policy Analysis

In instances where proficiency in a foreign language can be shown to be integral to a student’s program of study, it may be used to meet the analytical competency requirement. Students must petition for approval from the Program Director. Courses taken to demonstrate language proficiency may not be included in the 40 credit-hours required for the degree.

Skills course (1 credit):
- IAFF 6502 Professional Skills I
- IAFF 6503 Professional Skills II

Elective field (9 credits):
9 credit hours selected to complement the background and interests of the individual student

Courses composing the elective field may be offered through a different Elliott School program, a department in another college within the University, or a combination of the two.

Up to 3 credits may be taken as skills courses (IAFF 6502 and IAFF 6503)

For more information visit the program website (http://elliott.gwu.edu/international-science-and-technology-policy).