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. The Master of Arts in international science and technology policy prepares students to understand and respond to these important dynamics.

The multidisciplinary 40-credit M.A. program includes a core field in science technology and international affairs, which allows students to concentrate on areas of particular interest; an analytical competency requirement, which provides career-enhancing, marketable skills in policy analysis, economic theory, or statistics; and an elective field which reflects individual interests and career goals.

Recent graduates often work in research, analysis, or management positions with titles such as research analyst, program or policy analyst, legislative analyst, or more specialized areas. Analysts are often employed with government agencies, advocacy groups, think tanks, science and technology-oriented publications, and other organizations.

Visit the program website (https://elliott.gwu.edu/international-science-and-technology-policy/) for additional information.

### ADMISSIONS

<table>
<thead>
<tr>
<th>Admission deadlines:</th>
<th>Fall: January 7th - Fellowship &amp; Application Deadline</th>
<th>Spring: October 1st - Fellowship &amp; Application Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standardized test scores:</td>
<td>GRE/GMAT test-optional</td>
<td>GRE/GMAT test-optional</td>
</tr>
<tr>
<td>Recommended letters required:</td>
<td>2 (two) letters are required. Applicants should submit one (1) academic letter from a professor and one (1) professional reference.</td>
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</tr>
</tbody>
</table>

### Prior academic records:

Transcripts are required from all colleges and universities attended, whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Unofficial transcripts from all colleges and universities attended should be uploaded to your online application. Official transcripts are required only of applicants who are offered admission and choose to enroll.

If academic records are in a language other than English, English language translations must be provided. The English translations alone should be uploaded into the online application. Official transcripts and certified English translations will be required of applicants who are offered admission and choose to enroll.

### Statement of purpose:

All applicants are required to submit an essay of approximately 500 words that answers one of the two questions below:

**State your purpose in undertaking graduate study at the Elliott School.**
As part of your statement of purpose, describe your academic and research interests, career objectives, how a degree from the Elliott School will enable you to achieve your goals, and what unique skills, talents and/or perspectives you will bring to your program. Please be specific.

**OR -**

Please discuss an issue of international importance you wish to address in your professional career. Please include how the Elliott School and the academic program to which you have applied will prepare you to address this global issue.

### Additional requirements:

A résumé or curriculum vitae is required. Resumés/CVs must include dates of employment (if applicable) and date of degree conferral or expected degree conferral.

International Applicants may be required to submit official English Language tests scores with their application. Please see the Elliott School’s English Language Requirements for guidance on whether you need to take the TOEFL/IELTS/PTE. Please send official TOEFL scores to institution code 5246.

The minimum English Language Test Requirements can be found below:

<table>
<thead>
<tr>
<th>Eligible for Admission &amp; requires EAP Courses:</th>
<th>IELTS- 7.0 overall score, no band score below 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOEFL- 100 (internet test) 600 (paper test)</td>
<td>PTE- 68</td>
</tr>
<tr>
<td>Eligible for Admission &amp; Exempt from EAP Courses**:</td>
<td>IETLS- 7.0 overall score, no band score below 6.5</td>
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Master of Arts in the Field of International Science and Technology Policy
TOEFL- 105 (internet test) 650 (paper test)
PTE- 72

**Spring applicants must receive at least these scores to be considered for admission.

Please review International Applicant Information carefully for details on required documents, earlier deadlines for applicants requiring an I-20 or DS-2019 from GW, and English language requirements.

Supporting documents not submitted online should be mailed to:
Office of Graduate Admissions
The Elliott School of International Affairs
The George Washington University
1957 E Street, NW, Suite 301
Washington, DC 20052

Contact for questions:
esiagrad@gwu.edu – 202.994.7050 – 202.994.9537 (fax)
9:00 am – 5:00 pm, Monday through Friday

REQUIREMENTS

The following requirements must be fulfilled: 40 credits, including 6 credits in core field courses, a 4-credit capstone course sequence, 15 credits in a concentration, 6 credits in analytical competency courses, and 9 credits in elective courses.

See note regarding special topics courses, skills courses, and LAW courses.*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Required</td>
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<tr>
<td></td>
<td>Core field courses (6 credits)</td>
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</tr>
<tr>
<td>IAFF 6141</td>
<td>International Science and Technology Policy Cornerstone</td>
<td></td>
</tr>
<tr>
<td>IAFF 6143</td>
<td>Science and Technology Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>Capstone (4 credits)</td>
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<td></td>
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<tr>
<td>Students complete a two-course capstone sequence that most closely matches the thematic area of their project. The capstone sequence includes a 2-credit capstone workshop taken before the 2-credit capstone seminar. Students must have completed at least 18 credits of coursework prior to starting the capstone sequence. The two 2-credit capstone courses must be taken consecutively.</td>
<td></td>
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</tr>
<tr>
<td>IAFF 6157</td>
<td>International Science and Technology Policy Capstone Workshop</td>
<td></td>
</tr>
<tr>
<td>IAFF 6159</td>
<td>International Science and Technology Policy Capstone Project</td>
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</tbody>
</table>

Concentration (15 credits)

At least five courses in one concentration. Students may choose from the following concentrations or they may design a personalized concentration in consultation with the Program Director. All courses below are listed in order of relevance and fit for the respective requirement.

A. Space Policy
IAFF 6145 U.S. Space Policy
IAFF 6146 Space Law
or LAW 6548 Air and Space Law
IAFF 6148 Space and National Security
IAFF 6153 Science, Technology, and National Security
IAFF 6158 Special Topics in International Science and Technology Policy (Issues in Space Policy)
IAFF 6158 Special Topics in International Science and Technology Policy (Space Economics)
EHS 6227 Introduction to Human Health in Space

B. Energy Policy
IAFF 6151 Environmental Policy
IAFF 6152 Energy Policy
IAFF 6158 Special Topics in International Science and Technology Policy (Science Diplomacy)
IAFF 6138 Special Topics in International Development Studies (Climate Change and Sustainable Development)
IAFF 6118 Special Topics in International Affairs (Global Energy Markets)
IAFF 6378 Special Topics in Middle East Studies (Oil: Industry, Economy, and Society. Same as: IBUS 6400)
IBUS 4404 Global Energy
EMSE 6200 Policy Factors in Environmental and Energy Management
LAW 6438 Energy Law and Regulation
PUBH 6130 Sustainable Energy and the Environment
C. Technology Innovation Management and Policy
IAFF 6158  Special Topics in International Science and Technology Policy (Economics of Technological Change. Same as: ECON 6255)

IAFF 6138  Special Topics in International Development Studies (Development and Technology)

ECON 6237  Economics of the Environment and Natural Resources

ECON 6283  Survey of International Trade Theory and Policy

ISTM 6214  Foundations of Artificial Intelligence

ISTM 6218  Business Applications of Artificial Intelligence

ISTM 6222  IS/IT Strategy and Implementation

ISTM 6223  Technology Entrepreneurship

ISTM 6224  Management of Technology and Innovation

ISTM 6233  Emerging Technologies

IBUS 6401  International Business Strategy

MGT 6280  Entrepreneurship

D. Environmental Policy

IAFF 6151  Environmental Policy

IAFF 6158  Special Topics in International Science and Technology Policy (Science Diplomacy)

IAFF 6118  Special Topics in International Affairs (Managing the World’s Water)

IAFF 6164  Environmental Security

IAFF 6138  Special Topics in International Development Studies (Climate Change and Smallholder Agriculture)

IAFF 6138  Special Topics in International Development Studies (Urbanization and Climate Change)

IAFF 6138  Special Topics in International Development Studies (Strategic Environmental Management)

IAFF 6358  Special Topics in Latin American and Hemispheric Studies (Climate Change and Environmental Policy in Latin America)

EMSE 6200  Policy Factors in Environmental and Energy Management

EMSE 6220  Environmental Management

GEOG 6220  Seminar: Climatic Change

GEOG 6293  Special Topics (Environmental Conservation)

GEOG 6230  Seminar: Environmental Issues in Development (Environment and Development)

PPPA 6140  Introduction to Environmental Law

PUBH 6130  Sustainable Energy and the Environment

E. Nuclear Policy

IAFF 6152  Energy Policy

IAFF 6158  Special Topics in International Science and Technology Policy (Science Diplomacy)

IAFF 6106  Nuclear Weapons

IAFF 6107  The Science of Nuclear Materials

IAFF 6118  Special Topics in International Affairs (Nuclear Security Policy)

IAFF 6186  Special Topics in Security Policy Studies (Nuclear Strategy)

IAFF 6186  Special Topics in Security Policy Studies (Nuclear Proliferation and Nonproliferation)

F. National Security

IAFF 6153  Science, Technology, and National Security

IAFF 6148  Space and National Security

IAFF 6158  Special Topics in International Science and Technology Policy (Artificial Intelligence and Non-Proliferation)

IAFF 6186  Special Topics in Security Policy Studies (Cybersecurity)

IAFF 6186  Special Topics in Security Policy Studies (Weapons of Mass Destruction and Arms Control in the 21st Century)

IAFF 6186  Special Topics in Security Policy Studies (Emerging Threats)

IAFF 6106  Nuclear Weapons
<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>IAFF 6107</td>
<td>The Science of Nuclear Materials</td>
</tr>
<tr>
<td>IAFF 6162</td>
<td>Security Policy Analysis</td>
</tr>
<tr>
<td>IAFF 6118</td>
<td>Special Topics in International Affairs (Nuclear Security Policy)</td>
</tr>
<tr>
<td>IAFF 6160</td>
<td>Defense Policy and Program Analysis</td>
</tr>
</tbody>
</table>

**Analytical competency (6 credits)**

Two courses from the following:

<table>
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<tbody>
<tr>
<td>IAFF 6158</td>
<td>Special Topics in International Science and Technology Policy (Economics of Technological Change. Same as: ECON 6255)</td>
</tr>
<tr>
<td>IAFF 6118</td>
<td>Special Topics in International Affairs (Applied Qualitative Methods)</td>
</tr>
<tr>
<td>IAFF 6118</td>
<td>Special Topics in International Affairs (Data Analytics for International Affairs)</td>
</tr>
<tr>
<td>IAFF 6501</td>
<td>Quantitative Analysis for International Affairs Practitioners</td>
</tr>
</tbody>
</table>

**Electives (9 credits)**

9 credits in elective courses. Elective courses may include graduate-level courses offered through other Elliott School programs, departments in other GW schools, or a combination of the two. Up to 3 credits may be taken as professional skills courses (IAFF 6502 or IAFF 6503).

*Specific subject matter covered in special/selected topics courses varies by semester. Consult the Schedule of Classes (http://my.gwu.edu/mod/pws/) for each semester’s offerings. Topics courses not listed here may be used to fulfill program requirements if approved by the Program Director.

Additional information regarding skills courses (https://elliott.gwu.edu/professional-skills-courses/) (https://elliott.gwu.edu/thesis/) is available on the Elliott School website.

Law School courses—Students may, with permission of their advisor, include courses in the Law School (http://www.law.gwu.edu/) in their major field. Enrolling in a LAW course also requires permission of the Law School dean of students. Students should consult the Elliott School’s Graduate Student Services (https://elliott.gwu.edu/graduate-academic-advising/) office before enrolling in LAW courses.

**COMBINED PROGRAM**

- Dual Master of Arts in any Elliott School graduate program and Master of Public Health (http://bulletin.gwu.edu/public-health/dual-ma-esa-mph/)
- Joint Master of Arts in Elliott School programs and Master of Business Administration (http://bulletin.gwu.edu/international-affairs/graduate-programs/joint-mba-ma-international-affairs/)
- Joint Master of Arts and Juris Doctor (https://current.bulletin.gwu.edu/international-affairs/graduate-programs/joint-ma-jd/)