Rationale
The Institute for Politics and Strategy (IPS) seeks to train the next generation of political scientists who can examine and understand domestic and international government institutions and processes in the twenty-first century’s continuously changing global political structure. War has been a constant in our students’ lives, and that unfortunately does not look like it will change soon. But what is changing is the political landscape of war—from wars between nations to non-state actors like ISIS and al-Qaeda. Coupled with an increasingly global society, international relations and politics are extremely important for preparing students to analyze and manage uncertainty and transformation in many pursuits and places.

The Accelerated Master of Science in International Relations and Politics (IRP/AMP) serves four academic goals. The first is to allow students to take courses in four conventional areas of political science: international security, international relations, American politics, and comparative politics. However, the primary focus of the IRP/AMP is international security. IPS offers a unique subset of courses focused on international security. Through the support of the Hewlett Foundation, IPS has robust course offerings in cybersecurity and international conflict. Students will analyze the role of cyber warfare and cybersecurity in international politics—past, present, and future. Cyber-attacks by nation-states and their proxies have the potential to reshape how wars are fought in the twenty-first century. As such, the complexity and policy challenge of cyber- engagements is immense and without precedent. The concentration addresses the role of deterrence, dissuasion, and attribution in cyber conflict, while also studying the nuances of key components of modern warfare—from security dilemmas to escalation management. The coursework tackles the social-scientific dimensions of cybersecurity with a focus on the implications of the cyber age for modern statecraft, warfare, elections, and politics, more generally.

A second goal is to equip students with strong methodological skills. Students pursuing the IPR/AMP will master the diverse skills needed to conduct advanced quantitative and qualitative research. This will be a significant advantage for our graduates in both the policy world and when applying for PhD or JD programs. Students are required to take Regression Analysis for Political Science I and II. Regression Analysis for Political Science (RAPS) I will teach students to conduct bivariate and multivariate linear regression models. Students will learn about analysis of variance, parameter estimation, hypothesis testing, interpretation of estimates, model fit, models with dummy variables, model predictions, model diagnostics, and basic data visualizations. RAPS I will also train our students in using R statistical software, making them competent in this key research tool in the field of political science. Materials for this course will include instructions and examples using R, and there will be a strong emphasis in conducting exercises and learning from applied examples. At the end of RAPS II, students will be able to evaluate critically most studies that use statistical tools in political science research, and be able to design and carry out original research applying quantitative methods. Among other topics, we will examine
the violations of regression assumptions (e.g., multicollinearity, heteroscedasticity, autocorrelation, measurement error, and specification error), interaction terms, analysis of residuals, maximum likelihood estimation procedures, models with ordinal dependent variables, and non-linear models. There will be an emphasis in using graphical tools to aid interpretation and presentation of results.

The Process Tracing, Counterfactuals, Archival Analysis and Interviews mini covers qualitative research tools. Some of our IRP/AMP students will want to conduct interviews for their theses and future work. In this course, students will become familiar with the inferential logic of process tracing and the basics of the counterfactual approach to observational data analysis. They will also learn how to conduct case studies and collect and manipulate primary-source records.

A third goal is to guide students in the production of a significant thesis. A mini course, Thesis Proposal Tutorial, is devoted to improving intentionality in formulating a thesis proposal. This course will familiarize students with the structure of a thesis, the roles of its different elements, and its connection to the broader research literature. As part of the mini course, faculty members will illustrate these processes as manifested in their own research. Students will have the opportunity to submit their work for publication in the Center for International Relations and Politics (CIRP) Journal.

The fourth goal is to prepare students to enter the policy world (should they choose to do so) with a deserved sense of self-efficacy, accompanied by professional skills. Students are required to complete a summer internship in a related field between the senior year and master’s year of the program. The internship will allow students to synthesize the program’s studies in the context of practical and hands-on experiential learning opportunities. IPS has dedicated staff to support students in all aspects of the internship process.

In addition to the required internship, students will participate in IPS-sponsored networking receptions and policy-oriented events (mostly centered in our Washington, DC, Capitol Hill offices) in order to expand their network and come into direct contact with political, business, and community leaders while learning about the most pressing policy issues of the day.

The CIRP Policy Forum is one key way in which IPS brings international relations and politics into the intellectual conversation at CMU. The CIRP Policy Forum regularly brings diplomats, scholars, policymakers, journalists, and other thought leaders to the university to address major issues facing the United States and the world. IRP/AMP students will enroll in a three-unit Policy Forum Seminar each semester of the master’s year and be expected to participate in and reflect on their interactions throughout the CIRP Policy Forum lectures and roundtable discussions.

IPS offers a competitive degree to students seeking advanced coursework in the field by providing a robust methodological framework, interdisciplinary social science content, and practical experience. The international security concentration allows for a unique dive into cybersecurity issues in the current and evolving political landscape. Small classes within IPS result in close student-faculty relationships and, often, publishable work. Graduate student work will be published twice per academic year in the CIRP Journal. IPS’s position on Capitol Hill, dedicated staff to support the internship and job search process, robust opportunities through the CIRP Policy Forum and networking receptions, work in concert to position our master’s students and alumni to successfully navigate the professional world of policy and current political landscape.
Format
The Accelerated Master of Science in International Relations and Politics is open only to Carnegie Mellon undergraduate students. Students should have an undergraduate major, additional major, or minor in the Institute for Politics and Strategy, they should have participated in the Carnegie Mellon University Washington Semester Program, or they should have special approval from the faculty admissions committee. Current undergraduates will apply for the IRP/AMP during the spring of the junior year.

In addition to coursework, students are required to complete a summer internship in a related field between the senior year and the fifth year.

The IRP/AMP requirements include 186 units (including prerequisite courses), divided as follows:

Curriculum (186 units, including prerequisite courses)

**Prerequisite Courses: (42 units)**
Must be completed before the end of the fourth year.

- 84-104 Decision Processes in American Political Institutions (9 units)
- 84-275 Comparative Politics (9 units)
- 84-326 Theories of International Relations (9 units)
- Two 84-300/400 level IPS electives, one of which may be a 6-unit mini course (15 units total)

**Core Courses: (78 units)**
Students must complete all of the following core courses.

- 84-701 Regression Analysis for Political Science I (12 units)
- 84-702 Regression Analysis for Political Science II (12 units)
- 84-710 Thesis Proposal Tutorial (6 units)
- 84-711 Process Tracing, Counterfactuals, Archival Analysis, and Interviews (6 units)
- 84-720 International Security Graduate Seminar (12 units)
- 84-722 Comparative Political Institutions Graduate Seminar (12 units)
- 84-725 International Organizations and International Law Graduate Seminar (12 units)
- 84-791, 84-792 CIRP Policy Forum Seminar (6 units total, 3 units per semester in master’s year)

**Internship: (84-705): (0 units)**
Summer between Fourth and Fifth Year

Students are required to complete a summer internship in a related field between the fourth and fifth year of the program. The internship will allow students to synthesize the program’s studies in the context of practical and hands-on experiential learning opportunities. IPS has dedicated staff to support students in all aspects of the internship process.

**IRP Graduate Thesis (84-799): (18 units)**
Spring of Fifth Year

All students must complete a graduate-level thesis paper. Students must submit a proposal by November of the fifth year. Students will work independently with a faculty member in the Institute for Politics and Strategy to complete the IRP Graduate Thesis. The final paper will be reviewed and approved by the faculty adviser for the

Concentration Coursework: (48 units)
Students must complete a minimum of 48 units (approximately four courses).

International Relations
84-610 International Political Economy
84-611 International Development: Theory and Praxis
84-618 Politics of Developing Nations
84-620 Global Perspectives on International Affairs
84-622 Nonviolent Conflict and Revolution
84-623 War and Peace in the Contemporary Middle East
84-662 Diplomacy and Statecraft
84-665 Psychology and International Relations
84-669 Decision Science for International Relations
84-682 Conflicts in the Middle East: Iran, Iraq, and Proxy Warfare

International Security
84-605 The Future of Warfare
84-614 International and Subnational Security
84-670 Global Nuclear Politics
84-672 Space and National Security
84-673 Emerging Technologies and the Law
84-680 Grand Strategy in the United States
84-682 Conflicts in the Middle East: Iran, Iraq, and Proxy Warfare
84-683 War Powers
84-686 The Privatization of Force
84-687 Technology and Policy of Cyber War
84-688 Concepts of War and Cyber War
84-689 Terrorism and Insurgency
84-690 Social Media, Technology, and Conflict

Comparative Politics
84-608 Political Economy of Latin America
84-615 Contemporary Debates in Human Rights
84-618 Politics of Developing Nations
84-621 Autocrats and Democrats
84-624 The Future of Democracy
84-663 Comparative Legal Systems
84-664 Comparative Presidential Behavior: Leadership, Personality, and Decision Making

American Politics
84-602 Judicial Politics and Behavior
84-609 Political Behavior
Undergraduate courses taken in the Institute for Politics and Strategy (84-xxx) may not also count toward the MS IRP course requirements except as listed in the prerequisite course category. A maximum of 48 units of graduate courses out of the 186 units required to complete the accelerated master’s degree will be permitted to count toward an undergraduate degree at Carnegie Mellon. (This allowance may be restricted further by the double-counting policies of one’s undergraduate major and department.) Exceptions are made only with prior approval of the faculty director and the deputy director.

### IRP/AMP Sample Plan of Study

#### Fall - Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>84-722: Comparative Political Institutions Graduate Seminar</td>
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<tr>
<td>84-701: Regression Analysis for Political Science I</td>
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**TOTAL MS IRP Units**: 24

#### Spring - Senior Year

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<th>Course</th>
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<tr>
<td>84-720: International Security Graduate Seminar</td>
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<td>84-702: Regression Analysis for Political Science II</td>
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**TOTAL MS IRP Units**: 24

#### Summer: Required Internship 84-705

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**TOTAL MS IRP Units**: 24

#### Fall - Fifth Year

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<tr>
<td>84-725: International Organizations and International Law Graduate Seminar</td>
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<td>84-710 Thesis Proposal Tutorial</td>
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<td>84-711 Process Tracing, Counterfactuals, Archival Analysis, and Interviews</td>
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**TOTAL MS IRP Units**: 51

#### Spring - Fifth Year

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<td>84-799: IRP Graduate Thesis</td>
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<td>Concentration Course 3</td>
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<tr>
<td>Concentration Course 4</td>
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<td>84-792 CIRP Policy Forum Seminar</td>
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**TOTAL MS IRP Units**: 45