Institute for Politics and Strategy

Mark S. Kamlet, Interim Director, University Professor of Economics and Public Policy, and Provost Emeritus
Location: Posner Hall 385A
www.cmu.edu/ips (http://www.cmu.edu/ips/)

Founded in 2015, the Institute for Politics and Strategy (https://www.cmu.edu/ips/) is a university-wide institute for research and undergraduate and graduate education in the fields of political science, international relations, national security, and grand strategy. IPS is dedicated to the study of politics through the discipline of political science with support from other social sciences. In this way, IPS carries on a respected tradition of interdisciplinary political science at Carnegie Mellon University (CMU). IPS also builds upon the university’s rich heritage of applying basic science to issues of public policy.

Basic science is the foundation for the public policy activities of IPS. Analytical social science and interdisciplinary research and teaching are used to better understand, explain, anticipate, and solve public policy problems.

The CMU traditions of analytical political science and applied social science are reflected in the degree programs and entities that IPS supports and oversees. The academic programs included in the Institute for Politics and Strategy are:

- BS International Relations and Politics Major (primary and additional);
- International Economics and Politics (primary and additional);
- International Relations and Politics Minor;
- Cybersecurity and International Conflict Minor;
- Politics and Public Policy Minor;
- MS International Relations and Politics (traditional and accelerated); and
- Master of Information Technology Strategy.

The International Relations and Politics (IRP) major delves deeply into international relations and domestic politics from the discipline of political science. The International Relations and Politics (IRP) major (https://www.cmu.edu/ips/undergraduate%20degrees/undergraduate-majors/irp-major.html) analyzes the role of politics at the national, regional, international, and transnational levels; examines political and institutional arrangements within and among these levels; and investigates the grand strategy of nation-states. The IRP major preserves and expands CMU’s tradition in political science, while at the same time, taps into and contributes to CMU’s strengths in other social sciences that combine analytical and empirical methods. IRP includes an innovative initiative to incorporate decision science in political science. Thus, students learn to apply the burgeoning science of judgment and decision making to understanding political actors’ strategies and foibles, the strengths and weaknesses of formal methods of policy analysis (i.e., cost, risk, benefit, analysis), and the factors shaping public responses to politics and policies. IRP provides a rich set of courses and programmatic offerings that have made it an attractive course of study for students from all of CMU’s colleges.

The Economics and Politics major is offered jointly between the Undergraduate Economics Program (UEP) and IPS. Students are equal members of both academic units and receive advising from both units. The major will develop the political context and underpinnings of economic policy making. It will explore how political institutions resolve the tradeoffs and disagreements associated with policymaking and how they can facilitate or impede desirable economic outcomes. The major will appeal to any student interested in the design, evaluation, and political implementation of policy.

The IRP minor shares core courses with the IRP major. The minor in Politics and Public Policy has a greater focus on domestic politics and public policy than either the IRP major or minor and requires students to participate in the Carnegie Mellon University Washington Semester Program (https://www.cmu.edu/ips/cmuwsp/). The minor in Cybersecurity and International Conflict analyzes the role of cyber warfare and cybersecurity in international politics – past, present, and future.

The Master of Science in International Relations and Politics (MS IRP) (https://www.cmu.edu/ips/graduatedegrees/) serves four academic and professional goals:

- To allow students to specialize in one of four conventional areas of political science: international security, international relations, American politics, and comparative politics.
- To equip students with strong methodological skills.
- To guide students in the production of a significant and publishable thesis.
- To prepare students to enter the job market, whether their interests are in academia or the professional world. Students are guided through the internship and job application process by our faculty and staff on campus and Washington, DC.

In addition to a traditional two-year program, IPS offers an accelerated version of the MS IRP (MS IRP-AMP) for current Carnegie Mellon University undergraduate students. Students in the MS IRP-AMP begin graduate coursework in the senior year and complete the master’s degree in their fifth year of study.

The Master of Information Technology Strategy (MITS) (http://www.cmu.edu/ mits/) program provides graduate students with core interdisciplinary competencies in cybersecurity. The master’s program is a joint initiative of the College of Engineering, the Institute for Politics and Strategy, and the School of Computer Science.

The MITS program provides a multidisciplinary education that prepares students to define and conceptualize:

- the emerging environment of threats caused by cyber operations;
- opportunities for enhanced information analysis and exploitation;
- development and management of innovative information technology systems; and
- decision-making challenges associated with the above.

The Institute for Politics and Strategy sponsors the Carnegie Mellon University Washington Semester Program (CMU/WSP) (http://www.cmu.edu/ iped/wsp/), a university-wide semester-long program for undergraduates interested in taking courses and interning in Washington. The minor in Politics and Public Policy may be earned by completing CMU/WSP and taking an additional core course in the Institute for Politics and Strategy.

Bachelor of Science in International Relations and Politics

Mark S. Kamlet, Interim Director, University Professor of Economics and Public Policy, and Provost Emeritus
kamlet@cmu.edu, Posner Hall 385A
Emily Half, Deputy Director
ehalf@andrew.cmu.edu, Posner Hall 391, 412-268-7082

Offered through the Institute for Politics and Strategy (IPS), the Bachelor of Science in International Relations and Politics (IRP) analyzes the role of politics at the national, regional, international, and transnational levels; examines political and institutional arrangements within and among these levels; and investigates the grand strategy of nation-states.

Statesmen, scholars, and policy makers often define grand strategy as the combination of diplomatic, economic, military, and political factors used by leaders to defend their respective nation-states. The IRP major investigates the way in which leaders and citizens construct grand strategy and national security policy more generally; the impact of domestic and international forces on states’ security and economic policies; and the significance of alliances, coalitions, and international institutions for world politics. Although the study of grand strategy and political institutions is the flagship initiative of the major, students are also able to study the effects of culture, economics, and society on the international system through a rich set of elective courses.

Thinking systematically about international and domestic politics is the core objective of the IRP major. To this end, the major has required courses in mathematics and statistics that help to sharpen students’ ability to undertake scientific analysis in the required substantive and historical courses. The major is rooted in the discipline of political science but also utilizes the interdisciplinary strengths of decision science, economics, and political history. Thus, students pursuing this major will use the analytic tools of game theory, economic and statistical analysis, qualitative analysis, rational choice theory, and theories of behavioral decision making as they study alliances, coalitions, institutions, and political strategy.

The name of the major signifies that those studying IRP learn about international relations and domestic politics from the standpoint of the discipline of political science. Also, the major taps into and contributes to CMU’s strengths in other social sciences that combine analytical and empirical methods. IRP includes an innovative initiative that incorporates decision science in political science. It enables students to apply the burgeoning science of judgment and decision making to understanding political actors’ strategies and foibles, the strengths and weaknesses of formal methods of policy analysis (e.g., cost, risk, benefit, analysis), and the factors shaping public responses to politics and policies.
Recognizing the influence of language and culture on politics, students are required to complete the intermediate (200) level, or its equivalent, in a modern language other than English. Advanced-level study is strongly encouraged.

Open to all Carnegie Mellon undergraduates, the Carnegie Mellon University Washington Semester Program (CMU/WSP) allows students to study public policy and intern in Washington for one semester. Courses taken through CMU/WSP will count toward the elective sequence in politics and public policy for IRP majors.

In addition to the primary major in International Relations and Politics, IPS offers an additional major. Minors in International Relations and Politics, Cybersecurity and International Conflict, and Politics and Public Policy are also available. IPS also offers a Bachelor of Science in Economics and Politics jointly with the Undergraduate Economics Program.

Double Counting: Students may double count a maximum of four courses with another major or minor.

Curriculum

Core Courses
Students must complete all of the following core courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-104</td>
<td>Decision Processes in American Political Institutions</td>
<td>9</td>
</tr>
<tr>
<td>84-250</td>
<td>Writing for Political Science and Policy</td>
<td>9</td>
</tr>
<tr>
<td>84-265</td>
<td>Political Science Research Methods</td>
<td>9</td>
</tr>
<tr>
<td>84-275</td>
<td>Comparative Politics</td>
<td>9</td>
</tr>
<tr>
<td>84-326</td>
<td>Theories of International Relations</td>
<td>9</td>
</tr>
<tr>
<td>84-369</td>
<td>Decision Science for International Relations</td>
<td>9</td>
</tr>
<tr>
<td>84-450</td>
<td>Policy Seminar</td>
<td>6</td>
</tr>
<tr>
<td>36-202</td>
<td>Methods for Statistics &amp; Data Science</td>
<td>9</td>
</tr>
<tr>
<td>84-110</td>
<td>Foundations of Political Economy</td>
<td>9</td>
</tr>
<tr>
<td>or 73-102</td>
<td>Principles of Microeconomics</td>
<td>6</td>
</tr>
</tbody>
</table>

Mathematics Requirement

Excluded from all double counting rules. Students must complete one of the following courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-120</td>
<td>Differential and Integral Calculus</td>
<td>10</td>
</tr>
<tr>
<td>or 21-112</td>
<td>Integral Calculus</td>
<td>11</td>
</tr>
</tbody>
</table>

Language Requirement

Students are required to complete the intermediate (200) level or the equivalent in a modern language other than English. Advanced level study is strongly encouraged. Students who successfully pass a language placement exam on campus, at the intermediate II level or higher, are required to take an advanced language course to satisfy the language requirement.

Electives

International Relations and Politics students will fulfill the elective requirement by pursuing either **option 1** or **option 2** listed below:

**Option 1:** take 45 units (five courses) from the elective lists below. At least three courses (27 units) must be from the Institute for Politics and Strategy (84-xxx). Most courses listed below are 9-unit courses, but some are fewer. When courses offered for fewer than 9 units are chosen, students should note that a minimum of 45 units is required, and should plan to take one or more additional courses as appropriate.

OR

**Option 2:** complete the majority of their electives via the Carnegie Mellon University Washington Semester Program (CMU/WSP) politics and public policy elective sequence. Any elective units not fulfilled during CMU/WSP may be completed through coursework from the Institute for Politics and Strategy (84-xxx) elective list.

The Washington Semester Program (CMU/WSP) Politics and Public Policy sequence includes:

- Policy Seminar (12 units) - This course will count as the Policy Seminar (84-450) Core Course Requirement.
- Internship Seminar 84-360 CMU/WSP Internship Seminar (12 units)
- CMU/WSP Elective Seminars (24 units total)

A list of CMU/WSP elective seminars may be found in the Politics and Public Policy elective list below.

Grand Strategy and Political Institutions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>66-221</td>
<td>Topics of Law: Introduction to Intellectual Property Law</td>
<td>9</td>
</tr>
</tbody>
</table>

79-301 History of Surveillance: From the Plantation to Data Capitalism 6
79-302 Killer Robots: The Ethics, Law, and Politics of Lethal Autonomous Weapons Systems 6
80-135 Introduction to Political Philosophy 9
80-321 Causation, Law, and Social Policy 9
80-335 Social and Political Philosophy 9
84-200 Security War Game: Great Power Competition, Non-State Actors & Human Rights 6
84-309 Political Behavior 9
84-319 U.S. Foreign Policy and Interventions in World Affairs 9
84-320 Global Perspectives on International Affairs 6
84-321 Autocrats and Democrats 9
84-322 Nonviolent Conflict and Revolution 9
84-323 War and Peace in the Contemporary Middle East 9
84-324 The Future of Democracy 9
84-325 Contemporary American Foreign Policy 9
84-327 Repression and Control in Dictatorships 9
84-350 America and the World 6
84-352 Representation and Voting Rights 9
84-362 Diplomacy and Statecraft 9
84-363 Comparative Legal Systems 9
84-364 Comparative Presidential Behavior: Leadership, Personality, and Decision Making 9
84-366 The American Presidency 9
84-370 Global Nuclear Politics 9
84-372 Space and National Security 9
84-373 Emerging Technologies and the Law 9
84-380 US Grand Strategy 9
84-382 Conflicts in the Middle East: Iran, Iraq, and Proxy Warfare 9
84-386 The Privatization of Force 9
84-387 Technology and Policy of Cyber War 9
84-388 Concepts of War and Cyber War 6
84-389 Terrorism and Insurgency 9
84-390 Social Media, Technology, and Conflict 9
84-393 Legislative Decision Making: US Congress 9
84-402 Judicial Politics and Behavior 9
84-405 The Future of Warfare 9
84-414 International and Subnational Security 9
84-421 Advanced Topics in American Politics 9
88-281 Topics in Law: 1st Amendment 9
88-284 Topics in Law: The Bill of Rights 9

Economics and Society

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-452</td>
<td>EPP Projects II                                                             12</td>
<td></td>
</tr>
<tr>
<td>70-342</td>
<td>Managing Across Cultures</td>
<td>9</td>
</tr>
<tr>
<td>70-365</td>
<td>International Trade and International Law</td>
<td>9</td>
</tr>
<tr>
<td>70-430</td>
<td>International Management</td>
<td>9</td>
</tr>
<tr>
<td>73-103</td>
<td>Principles of Macroeconomics</td>
<td>9</td>
</tr>
<tr>
<td>73-328</td>
<td>Health Economics</td>
<td>12</td>
</tr>
<tr>
<td>73-332</td>
<td>Political Economy</td>
<td>9</td>
</tr>
<tr>
<td>80-136</td>
<td>Social Structure, Public Policy &amp; Ethics</td>
<td>9</td>
</tr>
<tr>
<td>80-244</td>
<td>Environmental Ethics</td>
<td>9</td>
</tr>
<tr>
<td>80-249</td>
<td>AI, Society, and Humanity</td>
<td>9</td>
</tr>
<tr>
<td>80-348</td>
<td>Health, Human Rights, and International Development</td>
<td>9</td>
</tr>
<tr>
<td>80-447</td>
<td>Global Justice</td>
<td>9</td>
</tr>
<tr>
<td>84-308</td>
<td>Political Economy of Latin America</td>
<td>Var.</td>
</tr>
<tr>
<td>84-310</td>
<td>International Political Economy</td>
<td>9</td>
</tr>
<tr>
<td>84-311</td>
<td>International Development: Theory and Praxis</td>
<td>9</td>
</tr>
<tr>
<td>84-312</td>
<td>Terrorism in Sub-Saharan Africa</td>
<td>6</td>
</tr>
<tr>
<td>84-313</td>
<td>International Organizations and Law</td>
<td>9</td>
</tr>
<tr>
<td>84-318</td>
<td>Politics of Developing Nations</td>
<td>9</td>
</tr>
<tr>
<td>88-411</td>
<td>Rise of the Asian Economies</td>
<td>9</td>
</tr>
</tbody>
</table>

International Cultures

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>76-318</td>
<td>Communicating in the Global Marketplace</td>
<td>9</td>
</tr>
<tr>
<td>76-386</td>
<td>Language &amp; Culture</td>
<td>9</td>
</tr>
</tbody>
</table>
be completed in as few as two years of undergraduate study, not that it must be. Students may declare the BS in International Relations and Politics as early as the second semester of the freshman year and should consult frequently with the deputy director (see above) about their course of study. Please note that this is only a sample plan of study and not the only possible plan of study. The IRP major and Dietrich College General Education curricula provide a high degree of flexibility in sequencing and coursework. Double counting between the major and the General Education requirements is unlimited. The plan below shows a very conservative view of double counting.

### Freshman

**Fall** | **Spring**
--- | ---
16-205 Reasoning with Data | First-Year Writing (FW) 84-228 Theories of International Relations 84-250 Writing for Political Science and Policy

**Sophomore**

**Fall** | **Spring**
--- | ---
84-204 Decision Science for International Relations | CMU/ WSP or STUDY ABROAD* 84-410 Foundations of International Relations IRP Elective 84-450 Policy Seminar**

**Junior**

**Fall** | **Spring**
--- | ---
84-360 Decision Science for International Relations | Explore 84-450 Policy Seminar**

**Senior**

**Fall** | **Spring**
--- | ---
84-360 Decision Science for International Relations | IRP Elective 84-450 Policy Seminar**

**NOTE:** Some courses have additional prerequisites.

### Sample four year plan

These sample curricula represent a plan for completing the requirements for the B.S. in International Relations and Politics. International Relations and Politics students are encouraged to spend a semester studying and interning in Washington, DC, through the CMU/WSP (http://www.cmu.edu/ips/cmuwsp/), and/or study abroad. The plan below demonstrates that a semester off-campus fits well into the curriculum. As with most majors in the Dietrich College, the International Relations and Politics major can...

**CMU/WSP Politics and Public Policy**

84-330 The Shading of Democracy: The Influence of Race on American Politics

84-331 Money, Media, and the Power of Data in Decisionmaking

84-332 Effects of US Policy on Businessess: Perspectives of Asian Americans

84-333 Power and Levers for Change in Washington, DC

84-334 Presidential Power in a Constitutional System

84-335 Intelligence and Policy

84-336 Implementing Public Policy: From Good Idea To Reality

84-337 Biomedical Science Research, Policy, and Governance

84-338 Political News Coverage in the Era of Trump, Twitter, and “Fake News”

84-339 Seminar in Public Policy Research


84-343 Language and Power: How to Understand and Use Political Speech

84-346 Legal Issues in Public Administration

84-348 Advocacy, Policy and Practice

**NOTE:** Some courses have additional prerequisites.

### Additional Major

Students who elect International Relations and Politics as an additional major must fulfill all of the requirements of the International Relations and Politics major.

### B.S. in Economics and Politics

Politics and economics are deeply interconnected. Political institutions and decision-making impact economic growth, income distribution, and many other aspects of economic life. Both fiscal and monetary policies affect the economy, but these policies are often employed with political considerations in mind and can influence political activity. Conversely, economic outcomes shape political preferences and policy choices. The overlap between these two disciplines is endless. For example, while the United Nations is often thought of in purely political terms, the Security Council can and does shape political preferences and policy choices. The overlap between these two disciplines is endless. For example, while the United Nations is often thought of in purely political terms, the Security Council can and does shape political preferences and policy choices.

The Economics and Politics major is offered jointly between the Undergraduate Economics Program (https://www.cmu.edu/tepper/programs/undergraduate-economics/) (UEP) and the Institute for Politics and Strategy (https://www.cmu.edu/ips/) (IPS). Students are equal members of both
Economics Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>73-256</td>
<td>Multivariate Analysis</td>
<td>9</td>
</tr>
<tr>
<td>or 21-259</td>
<td>Calculus in Three Dimensions</td>
<td>9</td>
</tr>
<tr>
<td>73-102</td>
<td>Principles of Microeconomics</td>
<td>9</td>
</tr>
<tr>
<td>73-103</td>
<td>Principles of Macroeconomics</td>
<td>9</td>
</tr>
<tr>
<td>84-104</td>
<td>Decision Processes in American Political</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Institutions</td>
<td></td>
</tr>
<tr>
<td>84-275</td>
<td>Comparative Politics</td>
<td>9</td>
</tr>
<tr>
<td>73-210</td>
<td>Economics Colloquium I</td>
<td>3</td>
</tr>
</tbody>
</table>

Core (63 units)

Students must complete all of the following courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>73-230</td>
<td>Intermediate Microeconomics</td>
<td>9</td>
</tr>
<tr>
<td>73-240</td>
<td>Intermediate Macroeconomics</td>
<td>9</td>
</tr>
<tr>
<td>73-265</td>
<td>Economics and Data Science</td>
<td>9</td>
</tr>
<tr>
<td>73-274</td>
<td>Econometrics I</td>
<td>9</td>
</tr>
<tr>
<td>84-265</td>
<td>Political Science Research Methods</td>
<td>9</td>
</tr>
<tr>
<td>84-326</td>
<td>Theories of International Relations</td>
<td>9</td>
</tr>
<tr>
<td>84-310</td>
<td>International Political Economy</td>
<td>9</td>
</tr>
</tbody>
</table>

Communication (9 units)

Students must complete one course from the following list.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>73-270</td>
<td>Professional Communication for Economists</td>
<td>9</td>
</tr>
<tr>
<td>84-250</td>
<td>Writing for Political Science and Policy</td>
<td>9</td>
</tr>
</tbody>
</table>

Electives (27 units)

Majors are required to take 27 units (three courses) from the elective lists below. At least one course (9 units) must be taken from Economics (73-xxx) and at least one course (9 units) must be taken from the Institute for Politics and Strategy (84-xxx). Students may complete electives through coursework in the Carnegie Mellon University Washington Semester Program (CMU/WSP). (https://www.cmu.edu/ips/cmuwsp/) Politics and Public Policy elective sequence.

<table>
<thead>
<tr>
<th>Program (CMU/WSP)</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-307</td>
<td>Economic and Political History of Contemporary China</td>
<td>9</td>
</tr>
<tr>
<td>84-308</td>
<td>Political Economy of Latin America</td>
<td>Var.</td>
</tr>
<tr>
<td>84-309</td>
<td>Political Behavior</td>
<td>9</td>
</tr>
<tr>
<td>84-311</td>
<td>International Development: Theory and Praxis</td>
<td>9</td>
</tr>
<tr>
<td>84-313</td>
<td>International Organizations and Law</td>
<td>9</td>
</tr>
<tr>
<td>84-318</td>
<td>Politics of Developing Nations</td>
<td>9</td>
</tr>
<tr>
<td>84-319</td>
<td>U.S. Foreign Policy and Interventions in World Affairs</td>
<td>9</td>
</tr>
<tr>
<td>84-320</td>
<td>Global Perspectives on International Affairs</td>
<td>6</td>
</tr>
<tr>
<td>84-322</td>
<td>Nonviolent Conflict and Revolution</td>
<td>9</td>
</tr>
<tr>
<td>84-323</td>
<td>War and Peace in the Contemporary Middle East</td>
<td>9</td>
</tr>
<tr>
<td>84-324</td>
<td>The Future of Democracy</td>
<td>9</td>
</tr>
<tr>
<td>84-325</td>
<td>Contemporary American Foreign Policy</td>
<td>9</td>
</tr>
<tr>
<td>84-327</td>
<td>Repression and Control in Dictatorships</td>
<td>9</td>
</tr>
<tr>
<td>84-350</td>
<td>America and the World</td>
<td>6</td>
</tr>
<tr>
<td>84-352</td>
<td>Representation and Voting Rights</td>
<td>9</td>
</tr>
<tr>
<td>84-362</td>
<td>Diplomacy and Statecraft</td>
<td>9</td>
</tr>
<tr>
<td>84-363</td>
<td>Comparative Legal Systems</td>
<td>9</td>
</tr>
<tr>
<td>84-364</td>
<td>Comparative Presidential Behavior: Leadership, Personality, and Decision Making</td>
<td>9</td>
</tr>
<tr>
<td>84-366</td>
<td>The American Presidency</td>
<td>9</td>
</tr>
<tr>
<td>84-369</td>
<td>Decision Science for International Relations</td>
<td>9</td>
</tr>
<tr>
<td>84-370</td>
<td>Global Nuclear Politics</td>
<td>9</td>
</tr>
<tr>
<td>84-372</td>
<td>Space and National Security</td>
<td>9</td>
</tr>
<tr>
<td>84-373</td>
<td>Emerging Technologies and the Law</td>
<td>9</td>
</tr>
<tr>
<td>84-380</td>
<td>US Grand Strategy</td>
<td>9</td>
</tr>
<tr>
<td>84-382</td>
<td>Conflicts in the Middle East: Iran, Iraq, and Proxy</td>
<td>9</td>
</tr>
<tr>
<td>84-386</td>
<td>The Privatization of Force</td>
<td>9</td>
</tr>
<tr>
<td>84-387</td>
<td>Technology and Policy of Cyber War</td>
<td>9</td>
</tr>
<tr>
<td>84-388</td>
<td>Concepts of War and Cyber War</td>
<td>6</td>
</tr>
<tr>
<td>84-389</td>
<td>Terrorism and Insurgency</td>
<td>9</td>
</tr>
<tr>
<td>84-390</td>
<td>Social Media, Technology, and Conflict</td>
<td>9</td>
</tr>
<tr>
<td>84-393</td>
<td>Legislative Decision Making: US Congress</td>
<td>6</td>
</tr>
<tr>
<td>84-402</td>
<td>Judicial Politics and Behavior</td>
<td>9</td>
</tr>
<tr>
<td>84-405</td>
<td>The Future of Warfare</td>
<td>9</td>
</tr>
<tr>
<td>84-414</td>
<td>International and Subnational Security</td>
<td>9</td>
</tr>
<tr>
<td>84-421</td>
<td>Advanced Topics in American Politics</td>
<td>9</td>
</tr>
</tbody>
</table>

Institute for Politics and Strategy
in sequencing and coursework. Double counting between the major and only possible plan of study. The Economics and Politics major and Dietrich of study. Please note that this is only a sample plan of study and not the frequently with the Economics and Politics advisors about their course into the curriculum. Students may declare the BS in Economics and Politics DC, through the encouraged to spend a semester studying and interning in Washington, These sample curricula represent a plan for completing the requirements SAMPLE Four Year Plan

<table>
<thead>
<tr>
<th>84-339</th>
<th>Seminar in Public Policy Research</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-340</td>
<td>Making Change: How Organized Interests Work</td>
<td>12</td>
</tr>
<tr>
<td>84-343</td>
<td>Language and Power: How to Understand and Use Political Speech</td>
<td>6</td>
</tr>
<tr>
<td>84-346</td>
<td>Legal Issues in Public Administration</td>
<td>6</td>
</tr>
<tr>
<td>84-348</td>
<td>Advocacy, Policy and Practice</td>
<td>6</td>
</tr>
</tbody>
</table>

Additional Electives

19-411 Science and Innovation Leadership for the 21st Century: Firms, Nations, and Tech
19-425 Sustainable Energy for the Developing World
70-365 International Trade and International Law
70-430 International Management
79-280 Coffee and Capitalism
79-318 Sustainable Social Change: History and Practice
80-135 Introduction to Political Philosophy
80-136 Social Structure, Public Policy & Ethics
80-321 Causation, Law, and Social Policy
80-335 Social and Political Philosophy
80-348 Health, Human Rights, and International Development
80-447 Global Justice
88-366 Behavioral Economics of Poverty and Development
88-419 International Negotiation
88-444 Public Policy and Regulations

CAPSTONE (15-21 units)

Students must complete all of the following courses.

<table>
<thead>
<tr>
<th>84-450</th>
<th>Policy Seminar</th>
<th>6</th>
</tr>
</thead>
</table>

73-497 Senior Project or Senior Honors Thesis

SAMPLE Four Year Plan

These sample curricula represent a plan for completing the requirements for the BS in Economics and Politics. Economics and Politics students are encouraged to spend a semester in Washington, DC, through the CMU/WSP (http://www.cmu.edu/ips/cmuwsp/), and/or study abroad. The plan below demonstrates that a semester off-campus fits well into the curriculum. Students may declare the BS in Economics and Politics as early as the second semester of the freshman year and should consult frequently with the Economics and Politics advisors about their course of study. Please note that this is only a sample plan of study and not the only possible plan of study. The Economics and Politics major and Dietrich College General Education curriculum provide a high degree of flexibility in sequencing and coursework. Double counting between the major and General Education requirements is unlimited. The plan below shows a very conservative view of double counting.

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Spring</td>
</tr>
<tr>
<td>84-339</td>
<td>21-256</td>
</tr>
<tr>
<td>84-340</td>
<td>21-120</td>
</tr>
<tr>
<td>84-343</td>
<td>36-200</td>
</tr>
<tr>
<td>84-346</td>
<td>36-200</td>
</tr>
<tr>
<td>84-348</td>
<td>84-300</td>
</tr>
<tr>
<td>84-419</td>
<td>84-300</td>
</tr>
<tr>
<td>84-444</td>
<td>84-300</td>
</tr>
</tbody>
</table>

Minor in Cybersecurity and International Conflict

Mark S. Kamlet, Interim Director, University Professor of Economics and Public Policy, and Provost Emeritus
kamlet@cmu.edu, Posner Hall 385A
Emily Half, Deputy Director
ehalf@andrew.cmu.edu, Posner Hall 391, 412-268-7082
www.cmu.edu/ips (http://www.cmu.edu/ips/)

The minor in cybersecurity and international conflict analyzes 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 altogether without precedent. The minor addresses the role of deterrence, dissuasion, and attribution in cyber conflict, while also studying the nuances of key components of modern warfare—from the security dilemma to escalation management.

Courses in this minor focus on the existing gaps in our understanding of cybersecurity and international conflict, such as whether or not cybersecurity is offense or defense dominant and which factors are most important in determining the answer to this, and other relevant questions, including how nation-states, their primary adversaries, and a bevy of nonstate actors engage online and in the virtual and information environments. Accordingly, the minor exposes students to basic technology concepts, methods of attack and defense, potential strategy and goals for cyber-engagement, and response and forensics for cyber-engagements.

Alongside conventional methods of warfare, cybersecurity has rapidly developed into a centerpiece of state’s ability to project power and impose its will on other states in the modern world. National and international cyber initiatives, laws, and policies are being developed extremely rapidly, and provide a unique institutional and cultural backdrop in the nascent domain of cybersecurity. The United States and other emerging cyber powers craft and implement doctrine in this nascent domain, there is likely to be a rapid increase in activity, from efforts to disrupt the online activities of global terrorist networks like the Islamic State to near daily raids on foreign networks designed to cripple states’ cyberweapons before they can be deployed.

In the shifting landscape of cyber capabilities, how will laws, authorities, and policies keep pace? What are the implications and consequences of actions that may be considered “short of war” by some countries but “above the threshold” of conflict by others? Will a more aggressive defensive posture with respect to cybersecurity inadverantly increase the risk of conflict with states that sponsor malicious hacking groups? What is the proper balance between off-offense and defense in cybersecurity and how are cyber operations best integrated into a country’s overall military strategy?

Unlike other kinds of conflicts, the attribution of attacks presents significant challenges. Indeed, in many cases, it can be difficult to determine whether the attacker is a nation-state, a nonstate actor, a criminal gang, or a lone hacktivist. Investigators must combine technical and traditional methods to identify potentially responsible parties and to understand their intent. If the aggressor’s identity cannot be confirmed, how can a counterattack be launched? Some attackers may seek to mount “false flag” attacks and deception, for example, that misdirect defenders to counter-attack in the wrong direction. Additionally, what are appropriate responses to attacks made on critical infrastructure and private business operations, such as in the areas of financial services, transportation, energy, entertainment, and health care? In other words, what are the appropriate rules of engagement for national systems, infrastructural systems, businesses, and individuals? When, for example, is a counterattack or a “kinetic” response permissible?

These questions have major implications for the study of war and peace. More than at any time in the past, those who seek to start war may be harder to find and their motives more difficult to discern. Many of the technical challenges posed by cyberspace activities will be addressed in the School of Computer Science’s security and privacy concentration for SCS students. The SCS program requires a high degree of math and quantitative
training. The cybersecurity and international conflict minor outlined herein tackles the social-scientific dimensions of cybersecurity with a focus on the implications of the cyber age for modern statecraft, warfare, elections (local, state, and national), and politics, more generally.

**CURRICULUM**

60 units

**Foundational Course**

Students must take one of the following two foundational courses (9 units):

- 84-275 Comparative Politics 9
- 84-326 Theories of International Relations 9

**Core Courses**

Students must take all of the following core courses (24 units):

- 84-387 Technology and Policy of Cyber War 9
- 84-388 Concepts of War and Cyber War 6
- 84-405 The Future of Warfare 9

**Elective Courses**

Students must take three courses from the following list of elective courses (27 units). At least one course (9 units) must be taken from the Institute for Politics and Strategy and have an 84-number.

- 16-735 Ethics and Robotics 12
- 17-200 Ethics and Policy Issues in Computing 9
- 79-301 History of Surveillance: From the Plantation to Data Capitalism 6
- 17-303 Cryptocurrencies, Blockchains and Applications Var.
- 17-331 Information Security, Privacy, and Policy 12
- 17-333 Privacy Policy, Law, and Technology 9
- 17-334 Usable Privacy and Security 9
- 17-702 Current Topics in Privacy Seminar 3
- 79-301 History of Surveillance: From the Plantation to Data Capitalism 6
- 80-249 AI, Society, and Humanity 9
- 84-200 Security War Game: Great Power Competition, Non-State Actors & Human Rights 3
- 84-319 U.S. Foreign Policy and Interventions in World Affairs 9
- 84-323 War and Peace in the Contemporary Middle East 9
- 84-325 Contemporary American Foreign Policy 9
- 84-327 Repression and Control in Dictatorships 9
- 84-361 Leaders and International Security 6
- 84-370 Global Nuclear Politics 9
- 84-372 Space and National Security 9
- 84-373 Emerging Technologies and the Law 9
- 84-380 US Grand Strategy 9
- 84-382 Conflicts in the Middle East: Iran, Iraq, and Proxy Warfare 9
- 84-386 The Privatization of Force 9
- 84-389 Terrorism and Insurgency 9
- 84-390 Social Media, Technology, and Conflict 9
- 84-414 International and Subnational Security 9
- 95-444 Cybersecurity Policy and Governance I 6

Students are permitted to double count a maximum of two courses between the minor in Cybersecurity and International Conflict and another major or minor.

**Minor in International Relations and Politics**

Mark S. Kamlet, Interim Director, University Professor of Economics and Public Policy, and Provost Emeritus

 kamlet@cmu.edu, Posner Hall 385A

Emily Half, Deputy Director

ehalf@andrew.cmu.edu, Posner Hall 391, 412-268-7082

www.cmu.edu/ips (http://www.cmu.edu/ips/)

The International Relations and Politics (IRP) minor analyzes the role of politics at the national, regional, international, and transnational levels; examines political and institutional arrangements within and among these levels; and investigates the grand strategy of nation-states.

Statesmen, scholars, and policy makers often define grand strategy as the combination of diplomatic, economic, military, and political factors used by leaders to defend their respective nation-states. The IRP minor investigates the way in which leaders and citizens construct grand strategy and national security policy more generally: the impact of domestic and international forces on states’ security and economic policies; and the significance of alliances, coalitions, and international institutions for world politics. The study of grand strategy and political institutions is the flagship initiative of the minor.

In the tradition of Carnegie Mellon University, political science is studied and taught in an interdisciplinary manner. Utilizing the interdisciplinary strengths of the social sciences at CMU, IRP students study political phenomena through the perspectives of decision science, economics, and political history. Students pursuing the minor will be asked to develop an understanding of game theory, economic and statistical analysis, qualitative analysis, rational choice theory, and theories of behavioral decision making as they study alliances, coalitions, institutions, and political strategy. Recognizing the influence of language and culture on politics and international relations, students are encouraged to study a modern language other than English.

The International Relations and Politics minor is offered through the Institute for Politics and Strategy. A maximum of two courses may double count between the minor in International Relations and Politics and another major or minor.

**Curriculum**

54 units

**Core Courses**

Students must take all three core courses (27 units):

- 84-104 Decision Processes in American Political Institutions 9
- 84-275 Comparative Politics 9
- 84-326 Theories of International Relations 9

**Economics Requirement**

Students must complete one of the following courses. Excluded from all double counting rules.

- 84-110 Foundations of Political Economy 9
- 73-102 Principles of Microeconomics 9

**Electives**

Students select three courses (27 units) from any of the elective sequences below. Two courses (18 units) must be taken from the Institute for Politics and Strategy and have an 84-number.

**Grand Strategy and Political Institutions**

66-221 Topics of Law: Introduction to Intellectual Property Law 9

- 79-301 History of Surveillance: From the Plantation to Data Capitalism 6
- 80-135 Introduction to Political Philosophy 9
- 80-321 Causation, Law, and Social Policy 9
- 80-335 Social and Political Philosophy 9
- 84-200 Security War Game: Great Power Competition, Non-State Actors & Human Rights 6
- 84-309 Political Behavior 9
- 84-319 U.S. Foreign Policy and Interventions in World Affairs 9
- 84-320 Global Perspectives on International Affairs 6
- 84-321 Dictatorships and稳定 9
- 84-322 Nonviolent Conflict and Revolution 9
- 84-323 War and Peace in the Contemporary Middle East 9
- 84-324 The Future of Democracy 9
- 84-325 Contemporary American Foreign Policy 9
- 84-327 Repression and Control in Dictatorships 9
- 84-362 Diplomacy and Statecraft 9
- 84-350 America and the World 6
Minor in Politics and Public Policy

Mark S. Kamlet, Interim Director, University Professor of Economics and Public Policy, and Provost Emeritus

Emil Half, Deputy Director
ehalf@andrew.cmu.edu

Mark S. Kamlet, Interim Director, University Professor of Economics and Public Policy, and Provost Emeritus

Emil Half, Deputy Director
ehalf@andrew.cmu.edu

Rooted in the discipline of political science, the minor in Politics and Public Policy investigates US public policy issues and other matters of domestic politics while providing students hands-on and practical learning experiences. Students pursuing the Politics and Public Policy minor must participate in the Carnegie Mellon University Washington Semester Program for one semester during their undergraduate experience.

From embassy headquarters to nongovernmental organizations, think tanks to advocacy organizations, and consulting firms to media outlets, Washington, DC, is a focal point for many international and public policy activities. Open to all Carnegie Mellon undergraduates, the Carnegie Mellon University Washington Semester Program (CMU/WSP) allows students to study public policy and intern in Washington for one semester. Undergraduates from any course of study who would value firsthand policy experience are invited to apply to the Carnegie Mellon University Washington Semester Program and declare a minor in Politics and Public Policy.

In this semester-long program, students live, work, and study in Washington, DC, coming into direct contact with political, business, and community leaders and learning about the most pressing policy issues of the day.

Students earn 48 units for the Carnegie Mellon University Washington Semester Program, interning about twenty-four hours per week in any sector or field of interest within Washington, DC, while taking classes taught by Carnegie Mellon faculty. The Institute for Politics and Strategy sponsors events and policy-oriented opportunities in Washington for students participating in the program to further enrich their experience and enhance their understanding of how Washington functions as a hub of international and public policy decision making.

The minor in Politics and Public Policy is offered through the Institute for Politics and Strategy. A maximum of two courses may double count between the minor in Politics and Public Policy and another major or minor.

Curriculum 57 units

Core Seminars

Students must take the following two courses while participating in the CMU/WSP (24 units):

84-360 CMU/WSP Internship Seminar 12
84-450 Policy Seminar 6
84-450 Policy Seminar 6

Elective Seminars

Students must take 24 units from the below list of elective seminars offered in the CMU/WSP. Offerings vary by semester. (24 units):

84-330 The Shading of Democracy: The Influence of Race on American Politics 6
double counting rules.

Excluded from all Students must complete one of the following courses. Students may take this course before or after participating in the CMU/WSP. (9 units):

- 84-331 Money, Media, and the Power of Data in 6 Decisionmaking
- 84-332 Effects of US Policy on Businesses: Perspectives 6 of Asian Americans
- 84-333 Power and Levers for Change in Washington, DC 12
- 84-334 Presidential Power in a Constitutional System 6
- 84-335 Intelligence and Policy 6
- 84-336 Implementing Public Policy: From Good Idea To Reality 12
- 84-337 Biomedical Science Research, Policy, and Governance 6
- 84-338 Political News Coverage in the Era of Trump, Twitter, and “Fake News” 6
- 84-339 Seminar in Public Policy Research 12
- 84-343 Language and Power: How to Understand and Use Political Speech 6
- 84-346 Legal Issues in Public Administration 6
- 84-348 Advocacy, Policy and Practice 6

Foundational Course

Students select one course from the following list of courses offered at Carnegie Mellon University’s Pittsburgh or Qatar campus. Students may take this course before or after participating in the CMU/WSP. (9 units):

- 84-104 Decision Processes in American Political Institutions 9
- 84-275 Comparative Politics 9
- 84-326 Theories of International Relations 9

Economics Requirement

Students must complete one of the following courses. Students may take this course before or after participating in the CMU/WSP. Excluded from all double counting rules.

- 84-110 Foundations of Political Economy 9
- 73-102 Principles of Microeconomics 9

Carnegie Mellon University Washington Semester Program

Mark S. Kamlet, Interim Director, University Professor of Economics and Public Policy, and Provost Emeritus

Emily Half, IPS Deputy Director

Meghan Mattern, CMU/WSP Program Manager

Meghan Mattern, andrew.cmu.edu; 202-608-8316, 100 Maryland Ave NE, Suite 510, Washington, DC 20002

www.cmu.edu/ips/cmuwsp (http://www.cmu.edu/ips/cmuwsp/)

Undergraduates from any course of study who would value firsthand policy experience are invited to apply to the Carnegie Mellon University Washington Semester Program (CMU/WSP), sponsored by the university’s Institute for Politics and Strategy. In this semester-long program, students live, work, and study in Washington, DC, coming into direct contact with political, business, and community leaders and learning about the most pressing policy issues of the day.

Students earn 48 units for the Carnegie Mellon University Washington Semester Program, interning about twenty-four hours per week in any sector or field of interest within Washington, DC, while taking classes taught by Carnegie Mellon faculty. The Institute for Politics and Strategy sponsors events and policy-oriented opportunities in Washington for students participating in the program to further enrich their experience and enhance their understanding of how Washington functions as a hub of international and public policy decision making.

Students should contact the IPS deputy director for more information or to discuss how the CMU/WSP may fit into their curriculum. Students who participate in the CMU/WSP may qualify for a minor in Politics and Public Policy (https://www.cmu.edu/ips/undergraduate%20degrees/minors/minor-in-politics-and-public-policy.html).

Curriculum

All students enroll in the following core seminars (24 units).

Core Seminars

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-360</td>
<td>CMU/WSP Internship Seminar 12</td>
</tr>
<tr>
<td>84-450</td>
<td>Policy Seminar 6</td>
</tr>
<tr>
<td>84-450</td>
<td>Policy Seminar 6</td>
</tr>
</tbody>
</table>

Students enroll in 24 units from the below list of elective seminars. Offerings vary by semester.

Elective Seminars

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-330</td>
<td>The Shading of Democracy: The Influence of Race on American Politics 6</td>
</tr>
<tr>
<td>84-331</td>
<td>Money, Media, and the Power of Data in Decisionmaking 6</td>
</tr>
<tr>
<td>84-332</td>
<td>Effects of US Policy on Businesses: Perspectives of Asian Americans 6</td>
</tr>
<tr>
<td>84-333</td>
<td>Power and Levers for Change in Washington, DC 12</td>
</tr>
<tr>
<td>84-334</td>
<td>Presidential Power in a Constitutional System 6</td>
</tr>
<tr>
<td>84-335</td>
<td>Intelligence and Policy 6</td>
</tr>
<tr>
<td>84-336</td>
<td>Implementing Public Policy: From Good Idea To Reality 12</td>
</tr>
<tr>
<td>84-337</td>
<td>Biomedical Science Research, Policy, and Governance 6</td>
</tr>
<tr>
<td>84-338</td>
<td>Political News Coverage in the Era of Trump, Twitter, and “Fake News” 6</td>
</tr>
<tr>
<td>84-339</td>
<td>Seminar in Public Policy Research 12</td>
</tr>
<tr>
<td>84-343</td>
<td>Language and Power: How to Understand and Use Political Speech 6</td>
</tr>
<tr>
<td>84-346</td>
<td>Legal Issues in Public Administration 6</td>
</tr>
<tr>
<td>84-348</td>
<td>Advocacy, Policy and Practice 6</td>
</tr>
</tbody>
</table>
Master of Science in International Relations and Politics (Accelerated-Track)

The accelerated Master of Science in International Relations and Politics (MS IRP-AMP) 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.

Students interested in applying for the MS IRP-AMP should consult with the Institute for Politics and Strategy (IPS) Deputy Director in the sophomore or junior year for details and advice on shaping undergraduate coursework to qualify for the program. Current undergraduates will apply for the accelerated master's degree during the junior year. Detailed information on the MS IRP-AMP curriculum is available on the Institute for Politics and Strategy website (https://www.cmu.edu/ips/graduatedegrees/msirp/).

Intellectual 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 Master of Science in International Relations and Politics (MS IRP) serves four academic goals.

1) To allow students to specialize in one of four conventional areas of political science.
2) To equip students with strong methodological skills.
3) To guide students in the production of a significant and publishable thesis.
4) To prepare students to enter the job market.

Faculty

MARK S. KAMLET, University Professor of Economics and Public Policy; Provost Emeritus; Interim Director of the Institute for Politics and Strategy - Ph.D., University of California, Berkeley; Carnegie Mellon, 1978-

IGNACIO ARANA ARAYA, Assistant Teaching Professor – Ph.D., University of Pittsburgh; Carnegie Mellon, 2016-

JOHN J. CHIN, Assistant Teaching Professor – Ph.D., Princeton University; Carnegie Mellon, 2016-

BARUCH FISCHHOFF, Howard Heinz University Professor in the Institute for Politics and Strategy and Department of Engineering and Public Policy – Ph.D., The Hebrew University of Jerusalem; Carnegie Mellon, 1987-

DANIEL M. SILVERMAN, Assistant Professor – Ph.D., The Ohio State University; Carnegie Mellon, 2016-

KIRON K. SKINNER, Taube Professor of International Relations and Politics – Ph.D., Harvard University; Carnegie Mellon, 1999-

FRED CRAWFORD, Lecturer – J.D., Georgetown University; Carnegie Mellon, 2017-

DALE CROWELL, Lecturer – M.A., Catholic University of America; Carnegie Mellon, 2018-

MARCIELA DEGRACE, Lecturer – Ph.D., Harvard University; Carnegie Mellon, 2018-

MOLLY DUNIGAN, Senior Lecturer – Ph.D., Cornell University; Carnegie Mellon, 2014-

MICHELLE GRISÉ, Lecturer – Ph.D., Yale University, J.D., University of Michigan; Carnegie Mellon, 2019-

THOMAS KARAKO, Lecturer – Ph.D., Claremont Graduate University; Carnegie Mellon, 2015-

SOPHIE LE BLANC, Lecturer – Ph.D., University of Delaware; Carnegie Mellon, 2017-

MATTHEW LANE, Lecturer – Ph.D., The Pennsylvania State University; Carnegie Mellon, 2021-

WILLIAM M. MARCELLINO, Lecturer – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2021-

GEOFFREY MCGOVERN, Senior Lecturer – Ph.D., Binghamton University, J.D., Harvard University; Carnegie Mellon, 2013-

FORREST E. MORGAN, Lecturer – Ph.D., University of Maryland; Carnegie Mellon, 2017-

DANI NEDAL, Lecturer – Ph.D., Georgetown University; Carnegie Mellon, 2018-

KIMBERLY SMACZNIAK, Lecturer – J.D., Harvard University; Carnegie Mellon, 2017-

ANDREW J. STRAVERS, Lecturer – Ph.D., University of Texas, Austin; Carnegie Mellon, 2021-

MARK A. TOUKAN, Lecturer – Ph.D., University of Wisconsin, Madison; Carnegie Mellon, 2021-

BEVERLEY WHEELER, Lecturer – D.Ed., Harvard University; Carnegie Mellon, 2012-

AUSTIN WHISNANT, Lecturer – MS, University of Pittsburgh; Carnegie Mellon, 2021-

JULIE WILSON, Lecturer – J.D., American University; Carnegie Mellon, 2017-

SEAN ZEIGLER, Lecturer – Ph.D., Duke University; Carnegie Mellon, 2019-

Post-Doctoral Fellows

JONATHAN CERVAS, Postdoctoral Fellow – Ph.D., University of California, Irvine; Carnegie Mellon, 2020-

PEARCE EDWARDS, Postdoctoral Fellow – Ph.D., Emory University; Carnegie Mellon, 2021-

DANIEL HANSEN, Postdoctoral Fellow – Ph.D., Michigan State University; Carnegie Mellon, 2018-

Lecturers

RASHALL BRACKNEY, Lecturer – Ph.D., Robert Morris University; Carnegie Mellon, 2018-