Independent research laboratories, centers, and institutes perform multidisciplinary research that extends beyond the scope of any one of the University’s organized schools. The listings are not all-inclusive. A comprehensive list of Stanford offices is available on the University’s A to Z Index page (http://www.stanford.edu/atoz).

The following tabs contain information on programs for undergraduates:

- Arts Institute (http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/artsinstitute)
- Interdisciplinary Honors in the Arts Program
- Arts Immersion
- Creative Cities
- Center for Spatial and Textual Analysis (CESTA) (https://cesta.stanford.edu)
- Graduate Certificate of Digital Humanities
- Center for the Study of Poverty and Inequality (CPI (p. 2))
  - Certificate Program on Poverty and Inequality
- Freeman Spogli Institute for International Studies (FSI) (p. 4)
  - Interschool Honors Program in Democracy, Development, and the Rule of Law
  - Interschool Honors Program in International Security Studies

**Office of Vice Provost and Dean of Research**

*Vice Provost and Dean of Research: Ann M. Arvin*

Office: 450 Serra Mall, Main Quadrangle, Building 60  
Mail Code: 94305-2064  
Phone: 650-723-8789 / Fax 650-723-0662  
Web Site: http://stanford.edu/dept/DoR  
Office Fax: 650-723-0662

The following independent Laboratories, Centers, and Institutes report to the Vice Provost and Dean of Research:

**Biological and Life Sciences**

- Bio-X, the interdisciplinary program related to bioengineering, biomedicine, and biosciences, http://biox.stanford.edu
- Spectrum (formerly the Stanford Center for Clinical and Translational Education and Research), http://spectrum.stanford.edu

**Environmental Sciences**

  - Global Climate and Energy Project (G-CEP), http://gcep.stanford.edu

**Humanities and Social Sciences**

- Center for Advanced Study in the Behavioral Sciences (CASBS), http://www.casbs.org
- Center for the Study of Language and Information (CSLI), http://www.cslil.stanford.edu
- Freeman Spogli Institute for International Studies (FSI), http://fsi.stanford.edu
  - Center on Democracy, Development, and the Rule of Law (CDDRL), http://cddrl.stanford.edu

- Stanford Health Policy (Center for Health Policy/Center for Primary Care and Outcomes Research), http://healthpolicy.stanford.edu
- Center for International Security and Cooperation (CISAC) http://cisac.stanford.edu
- Walter H. Shorenstein Asia-Pacific Research Center (Shorenstein APARC), http://aparc.stanford.edu
- The Europe Center, http://tec.stanford.edu
- Program on Food Security and the Environment, http://fse.stanford.edu
- Inter-University Center for Japanese Language Studies (IUC), http://www.stanford.edu/dept/IUC
- Program on Energy and Sustainable Development (PESD), http://pessd.stanford.edu
- Stanford Program on International and Cross-Cultural Education (SPICE), http://spice.stanford.edu
- Human-Sciences and Technologies Advance Research Institute (H-STAR), http://hstar.stanford.edu
- Stanford Center for Innovations in Learning (SCIL), http://scil.stanford.edu
- Stanford Center on Longevity (SCL), http://longevity.stanford.edu
- Stanford Humanities Center, http://shc.stanford.edu

**Physical Sciences**

- Edward L. Ginzton Laboratory, http://stanford.edu/group/ginztong
- Geballe Laboratory for Advanced Materials (GLAM), http://stanford.edu/group/glamp
- Kavli Institute for Particle Astrophysics and Cosmology (KIPAC), http://www.group.slac.stanford.edu/kipac, operated jointly with SLAC National Accelerator Laboratory
- Photon Ultrafast Laser Science and Engineering (PULSE), http://pulse.slac.stanford.edu, operated jointly with SLAC National Accelerator Laboratory
- Stanford Institute for Materials and Energy Sciences (SIMES), http://simes.slac.stanford.edu, operated jointly with SLAC National Accelerator Laboratory
- W. W. Hansen Experimental Physics Laboratory (HEPL), http://hepl.stanford.edu

**Centers Reporting to the Dean of Humanities and Sciences**

- Center for Space Science and Astrophysics (http://www.stanford.edu/group/CSSA)
- Center for Spatial and Textual Analysis (CESTA) (https://cesta.stanford.edu)
  - CESTA offers a graduate Certificate of Digital Humanities program
- Institute for Research in the Social Sciences (http://iriss.stanford.edu) (IRISS)
  - Stanford Center for Population Research (http://iriss.stanford.edu/scpr) (SCPR)
  - Stanford Center for the Study of Poverty and Inequality (http://iriss.stanford.edu/CPI) (CPI)
- Stanford Center for American Democracy (https://iriss.stanford.edu/ANES) (SCAD)
- Stanford Center on Philanthropy and Civil Society (http://pacscenter.stanford.edu) (PACS)
The student's course and research plan, which is submitted with the Requirements (inequality@stanford.edu) with any questions. coursework and providing research opportunities within CPI. Contact CPI time. Admitted students are assigned an adviser who assists in planning Applications to the CPI certificate program are available on the CPI web recognition of a rigorous program of study in the field of poverty and inequality. The center carries out these activities with ten research groups addressing the following topics:

- poverty measurement and trends
- educational access and achievement
- income inequality
- social mobility
- safety net use
- recession and recovery effects
- spatial segregation
- racial and ethnic inequality
- discrimination, poverty, and the labor market
- Hispanic poverty, inequality, and mobility.

The Certificate in Poverty and Inequality recognizes undergraduates who have developed expertise in one or more of these research areas. The certificate is conferred as soon as the coursework and research requirements listed below are completed. Although the certificate does not appear on an official University transcript, it provides formal recognition of a rigorous program of study in the field of poverty and inequality.

**Admission**

Applications to the CPI certificate program are available on the CPI web site (http://www.stanford.edu/group/scspi) and may be filed at any time. Admitted students are assigned an adviser who assists in planning coursework and providing research opportunities within CPI. Contact CPI (inequality@stanford.edu) with any questions.

**Requirements**

The student's course and research plan, which is submitted with the application, should meet the four requirements listed below.

1. **Core Foundation Course:** (SOC 140 Introduction to Social Stratification. This required introductory course examines the causes and consequences of poverty, inequality, and mobility. It is available as both a regular and online course.

2. **Elective Foundation Course:** The second foundation course is selected from among the normative, empirical, and policy courses listed below. These courses examine the principles by which certain types of living conditions may be deemed unjust or impoverished (i.e., normative analysis), the social processes and forces by which poverty and inequality are generated and maintained (i.e., empirical analysis), and the types of policies and interventions that might reduce or increase poverty and inequality (i.e., policy analysis).

3. **Research Project:** Students must complete a research paper on poverty or inequality. Students are invited to join one of the ten CPI research groups and become involved in an ongoing CPI research project that might become the basis for their research paper. Alternatively, students write an independent research paper rather than joining a CPI Research Group. The research paper may either take the form of a research proposal or an empirical research project based on quantitative or qualitative methods. This paper should be completed while the student is enrolled in Independent Study with a CPI faculty affiliate (http://www.stanford.edu/group/scspi).

4. **Additional Elective:** Students must take an elective course with a poverty or inequality focus. This requirement may be satisfied by taking an additional foundation course from the list provided above or by taking any of the preapproved elective courses listed below. Additionally, other unlisted courses addressing issues of poverty and inequality may also satisfy this requirement, although such courses require CPI approval (which is requested by submitting the Course Approval Form (http://www.stanford.edu/group/scspi)). It is recommended that approval be secured in advance of taking an unlisted course. If a new applicant to the certificate program wishes to count a completed course toward the requirements, that should be indicated on the application form and, if necessary, the Course Approval Form (http://www.stanford.edu/group/scspi) should be filled out.

**Elective Foundation Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHICSOC 136R</td>
<td>Introduction to Global Justice</td>
<td>4</td>
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<tr>
<td>ETHICSOC 171</td>
<td>Justice</td>
<td>4-5</td>
</tr>
<tr>
<td>INTNLREL 136R</td>
<td>Introduction to Global Justice</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 76</td>
<td>Introduction to Global Justice</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 171</td>
<td>Justice</td>
<td>4-5</td>
</tr>
<tr>
<td>POLISCI 136R</td>
<td>Introduction to Global Justice</td>
<td>4</td>
</tr>
<tr>
<td>PUBLPOL 103C</td>
<td>Justice</td>
<td>4-5</td>
</tr>
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</table>

**Empirical Foundation**

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<tr>
<th>Course</th>
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<tbody>
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<td>SOC 141</td>
<td>Controversies about Inequality</td>
<td>5</td>
</tr>
<tr>
<td>SOC 144</td>
<td>Inequality and the Workplace</td>
<td>5</td>
</tr>
</tbody>
</table>

**Policy Foundation**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ECON 11N</td>
<td>Understanding the Welfare System</td>
<td>3</td>
</tr>
<tr>
<td>SOC 135</td>
<td>Poverty, Inequality, and Social Policy in</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>the United States</td>
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</table>

**Preapproved Elective Courses**

<table>
<thead>
<tr>
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<th>Title</th>
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<tr>
<td>EARTHYS 106</td>
<td>World Food Economy</td>
<td>5</td>
</tr>
<tr>
<td>ECON 11N</td>
<td>Understanding the Welfare System</td>
<td>3</td>
</tr>
<tr>
<td>ECON 106</td>
<td>World Food Economy</td>
<td>5</td>
</tr>
<tr>
<td>SOC 135</td>
<td>Poverty, Inequality, and Social Policy in</td>
<td>3-4</td>
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<tr>
<td></td>
<td>the United States</td>
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</table>

**Units**

<table>
<thead>
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<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ECON 146</td>
<td>Economics of Education</td>
<td>5</td>
</tr>
<tr>
<td>EDUC 102</td>
<td>Examining Social Structures, Power, and</td>
<td>2-4</td>
</tr>
<tr>
<td></td>
<td>Educational Access</td>
<td></td>
</tr>
<tr>
<td>EDUC 173</td>
<td>Gender and Higher Education: National</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>and International Perspectives</td>
<td></td>
</tr>
<tr>
<td>EDUC 181</td>
<td>Multicultural Issues in Higher Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 221A</td>
<td>Policy Analysis in Education</td>
<td>4-5</td>
</tr>
<tr>
<td>EDUC 232</td>
<td>Culture, Learning, and Poverty</td>
<td>2-3</td>
</tr>
<tr>
<td>SOC 134</td>
<td>Gender and Education in Global and</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Comparative Perspectives</td>
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</tr>
</tbody>
</table>
Technical and conceptual skills as well as to strengthen their position in the competitive job market within and beyond the academy. The certificate program has been established as a pilot program from 2014-17.

Completion of the program results in a Certificate, signed by the CESTA director and the chair of the doctoral student’s home department.

The Graduate Certificate in Digital Humanities is issued by the Center for Spatial and Textual Analysis (CESTA) and will not appear on any University record, including the student’s transcript.

Contact
Office: Wallenberg Hall, 450 Serra Mall, Building 160
Mail Code: 94305-2084
Phone: (650) 721-1385
Fax: (650) 725-5916
Web Site: http://cesta.stanford.edu

Staff
Core Faculty: Mark Algee-Hewitt, Franco Moretti, Richard White, Dan Edelstein, Paula Findlen, Giovanna Ceserani, Walter Scheidel, Elaine Treharne, Amir Eschel, Zephyr Frank

Affiliated CESTA Faculty: Allyson Hobbs, Edith Scheffer, Caroline Winterer, Mark McGurl, Ana Minian, Mikael Wolfe.

CESTA Staff, Affiliates, and others: Celena Allen (GIS), Erik Steiner (visualization design and cartography), Ryan Heuser (programming), Nicole Coleman (information design and visualization), Jason Heppler (digital history), Elijah Meeks (information design), Karl Grossner (information design and cartography).

Admission
Admission to the program is on a rolling basis, and students may apply at any time. Submit a letter of interest and any supporting information to CESTA Lab Manager Matt Bryant (mattbryant.stanford@gmail.com) at mattbryant.stanford@gmail.com. For more information about the new GCCH program or CESTA in general, see the program’s web site (http://cesta.stanford.edu/gcdh).

Course Work
Students wishing to take part in the first cohort starting in 2014-15 and thereafter are expected to complete one GCCH-approved graduate core course for a letter grade, and one additional approved elective course. The approved core courses for the first year of the program are:

- HISTORY 401A Spatial History: Concepts, Methods, Problems
- ENGLISH 303C
- DLCL 396 Humanities+Design: Visualizing the Grand Tour (same as CLASSICS 396, HISTORY 336E)

Graduate Certificate in Digital Humanities

Overview
The Center for Spatial and Textual Analysis (CESTA) offers a Graduate Certificate in Digital Humanities (GCCH) to meet a growing need among the humanities for training in digital methods by leveraging existing resources at Stanford University. The Graduate Certificate in Digital Humanities allows graduate students to acquire and deepen their technical and conceptual skills as well as to strengthen their position in the competitive job market within and beyond the academy. The certificate program has been established as a pilot program from 2014-17.

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Course Work
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1. HISTORY 401A Spatial History: Concepts, Methods, Problems
2. ENGLISH 303C
3. DLCL 396 Humanities+Design: Visualizing the Grand Tour (same as CLASSICS 396, HISTORY 336E)

Students who have completed any of the core courses, or equivalent courses taught by members of the program, in past years are eligible to move to the next step in the GCCH program.

Following or concurrent with the completion of the required core course, students must complete the following two certificate components:

1. Additional course work (1 or more classes, may be taken credit/no credit, and must be approved in advance by the committee in charge) in computer science, information design, statistics, network analysis, linguistics, or other fields approved by the student’s supervisor and the CESTA committee in charge. A list of course recommendations is forthcoming.
2. One of the following:
   a. Independent research project and portfolio including a finished project which is evaluated and approved by an Academic Council

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 173</td>
<td>Gender and Higher Education: National and International Perspectives</td>
<td>3-4</td>
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<tr>
<td>AMSTUD 50N</td>
<td>The Literature of Inequality: Have and Have-Nots from the Gilded Age to the Occupy Era</td>
<td>3</td>
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<tr>
<td>POLSCI 127P</td>
<td>Economic Inequality and Political Dysfunction</td>
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<td>SOC 14N</td>
<td>Inequality in American Society</td>
<td>4</td>
</tr>
<tr>
<td>SOC 117D</td>
<td>Recognizing Inequality</td>
<td>3</td>
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<tr>
<td>SOC 141</td>
<td>Controversies about Inequality</td>
<td>5</td>
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<tr>
<td>Social Mobility</td>
<td>Examining Social Structures, Power, and Educational Access</td>
<td>2-4</td>
</tr>
<tr>
<td>SOC 144</td>
<td>Inequality and the Workplace</td>
<td>5</td>
</tr>
<tr>
<td>ECON 11N</td>
<td>Understanding the Welfare System</td>
<td>3</td>
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</tbody>
</table>

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Recession and Recovery
SOC 114D Sociology of the Great Recession | 5
SOC 149 The Urban Underclass | 4
SOC 46N Race, Ethnic, and National Identities: Imagined Communities | 3
SOC 139 American Indians in Contemporary Society | 4
SOC 145 Race and Ethnic Relations in the USA | 4
SOC 148 Comparative Ethnic Conflict | 4
Discrimination and the Labor Market
ECON 11N Understanding the Welfare System | 3
ECON 118 Development Economics | 5
ECON 145 Labor Economics | 5
SOC 142 Sociology of Gender | 3
SOC 144 Inequality and the Workplace | 5
Poverty, Inequality, and Mobility among Hispanics
CHILATST 125S Chicano/Latino Politics | 5
POLISCI 125S Chicano/Latino Politics | 5
SOC 165 Seminar on the Everyday Lives of Immigrants | 5
SOC 166 Mexicans, Mexican Americans, and Chicanos in American Society | 5

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Sociology of Gender

Labor Economics

Development Economics
supervisor and accepted as an affiliated project in one of CESTA’s labs. The duration of such projects must be a minimum of one academic quarter. Students may take up to 5 units of credit of directed reading for the purpose of completing the independent research project. Final projects are included in the student’s ePortfolio and published on the CESTA web site.

b. Supervised collaborative research in a CESTA lab with the expectation that the student’s participation culminates in a digital humanities product substantially of the authorship of the student; this must be a minimum of two quarters in duration. The student’s portion of the research is included in the ePortfolio and published on the CESTA web site.

Freeman Spogli Institute for International Studies (FSI)

Contacts
Office: Encina Hall Center, First Floor, 616 Serra Street
Mail Code: 94305-6055
Phone: 650-723-4581 / Fax 650-725-2592
Web Site: http://fsi.stanford.edu/

The Freeman Spogli Institute for International Studies (FSI) provides opportunities for undergraduate research through the CDDRL Undergraduate Honors Program and the CISAC Interschool Honors Program in International Security Studies.

Interschool Honors Program in Democracy, Development, and the Rule of Law

Director: Stephen J. Stedman

The Center on Democracy, Development, and the Rule of Law (CDDRL) Undergraduate Senior Honors Program provides students majoring in any Stanford academic department the opportunity to conduct an independent honors thesis focused on the fields of democracy, development, and the rule of law. Students are required to complete a three quarter long honors research seminar that begins Spring Quarter of the junior year. They will spend the last quarter of the senior year working independently with their faculty adviser to complete and submit their honors thesis ahead of their formal defense in mid-May. Upon fulfilling individual department course requirements and completing the honors program, students graduate with a certificate in Honors in Democracy, Development, and the Rule of Law.

Students interested in the program consult with their prospective honors advisers in their junior year to determine the tentative thesis topic, which should have some degree of policy relevance. Prerequisites for the program include: a 3.5 grade-point average at the time they apply; a strong overall academic record; sufficient depth and breadth in the fields of democracy, economic and social development, rule of law, and human rights course work; and demonstrated skills in writing and conducting independent research.

Students are required to attend honors college in Washington, D.C. in September before Autumn Quarter classes begin. Applicants are discouraged from studying abroad during the duration of the CDDRL Undergraduate Honors program.

Required Course Work

Two courses that explore the areas of democracy, development, and the rule of law to be approved by the faculty director. CDDRL’s flagship undergraduate lecture course taught during Autumn Quarter, which ideally should be completed before the student enters the honors program. DDRL Honors Research Methods Seminars meet on a weekly basis to present their project theses and receive feedback.

Typical Schedule for CDDRL Honors Program

Junior

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Autumn</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>DDRL 190 Honors Research Workshop</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>DDRL 189 Honors Research Methods</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>Year Total:</td>
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<td>3</td>
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Senior

<table>
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<tr>
<th>Course</th>
<th>Units</th>
<th>Autumn</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>DDRL 190 Honors Research Workshop</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DDRL 191 Independent Study (Optional)</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>Year Total:</td>
<td>6</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
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Total Units in Sequence: 14

1 Optional any quarter during senior year for 1-5 units, repeatable once for credit.

Admitted students must be able to fulfill all course requirements in their individual majors by the time they graduate, in addition to the units required for the honors program. For more information, contact Kristin Chandler, CDDRL Administrative Manager at kdchandl@stanford.edu or go to http://cddrl.stanford.edu/.

Interschool Honors Program in International Security Studies

Co-Directors: Rod Ewing, Amy Zegart

The Center for International Security and Cooperation (CISAC) coordinates a University-wide Interschool Honors Program in International Security Studies. Students chosen for the honors program intern with a security-related organization (prior to the start of senior year), attend the program’s honors college in Washington, D.C., in September, participate in a year-long core seminar, and under the direction of a faculty advisor produce an honors thesis relevant to international security policy. Upon fulfilling individual department course requirements and completing the honors program, students graduate in their major with the award of Honors in International Security Studies. To be considered for the program, students must demonstrate sufficient depth and breadth of international security course work.

Successful applicants to the program are expected to have taken:

- MS&E 193 Technology and National Security: Past, Present, and Future
- POLISCI 114S International Security in a Changing World
- and at least one related course such as
  - ECON 106 World Food Economy
  - HISTORY 103F The Changing Face of War. Introduction to Military History
  - HUMBIO 129S Global Public Health
  - INTNLREL 114D Democracy, Development, and the Rule of Law
  - INTNLREL 140A International Law and International Relations
  - LAW 5013 International Law (formerly LAW 479)

Units

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MS&amp;E 193</td>
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<tr>
<td>POLISCI 114S</td>
<td>5</td>
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<tr>
<td>ECON 106</td>
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<tr>
<td>HISTORY 103F</td>
<td>5</td>
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<tr>
<td>HUMBIO 129S</td>
<td>3</td>
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<tr>
<td>INTNLREL 114D</td>
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<td>INTNLREL 140A</td>
<td>5</td>
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<tr>
<td>LAW 5013</td>
<td>4</td>
</tr>
</tbody>
</table>
The Center for Space Science and Astrophysics is an interdepartmental organization coordinating research in space science and astrophysics. Its members are drawn from the Department of Geological and Environmental Sciences in the School of Earth Sciences; the departments of Aeronautics and Astronautics, Electrical Engineering, and Mechanical Engineering in the School of Engineering; the departments of Applied Physics, Physics, and Statistics in the School of Humanities and Sciences; the W. W. Hansen Experimental Physics Laboratory; and the SLAC National Accelerator Laboratory. Its membership also includes all faculty and appropriate staff at the Kavli Institute for Particle Astrophysics and Cosmology, located at SLAC and the Physics department.

The facilities of the center are available to any interested and qualified student, who must be admitted by and registered in a department. The departments of Aeronautics and Astronautics, Applied Physics, Electrical Engineering, Mechanical Engineering, and Physics offer opportunities leading to an M.S. or Ph.D. degree for work in space science or astrophysics. The center also offers opportunities to undergraduates who may, for instance, participate in research projects in their junior or senior years, on a part-time basis during the school year or on a full-time basis during the summer. The Astronomy Course Program operates a small student observatory where students may gain practical experience in astronomical observing.

Center for Space Science and Astrophysics


Director: Roger W. Romani

Associate Directors: Umran S. Inan, Philip H. Scherrer

Professors: Roger Blandford (Physics, SLAC), Elliot Bloom (SLAC), Lambertus Hesselink (Electrical Engineering), Umran S. Inan (Electrical Engineering), Steven Kahn (Physics, SLAC), Tune Kame (SLAC), Peter F. Michelson (Physics), Vahé Petrosian (Physics), Roger W. Romani (Physics), Norman H. Sleep (Geophysics), Guenther Walther (Statistics), Howard Zebker (Electrical Engineering, Geophysics)

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