Humanities, Arts, and Social Sciences

Degree Offered
- Master of Science in Natural Resources and Energy Policy (Non-Thesis)

Certificates Offered
- Graduate Certificate in Natural Resources and Energy Policy

Minors Offered
- Minor - A 12 credit-hour minor for graduate students pursuing degrees in organizations (advocacy, trade associations, etc.) working on energy, environment, and mining companies; local, state, and federal government positions related to energy and resources; and non-profit mining, and other engineering companies; local, state, and federal community development, social responsibility, and similar positions in energy, and financial analytics companies; policy, government affairs, risk management, community development, and similar positions in energy, mining, and other engineering companies; local, state, and federal government positions related to energy and resources; and non-profit organizations (advocacy, trade associations, etc.) working on energy, environment, or natural resources.

NREP is a professional degree that requires 30 credit hours: 18 in the core and 12 in electives

Combined Undergraduate/Graduate Degree Programs
Mines students may earn the master's degree as part of CSM's Combined Undergraduate/Graduate program. Students participating in the combined degree program may double count up to 6 semester hours of 400-level course work from their undergraduate course work.

Please note that Mines students interested in pursuing a Combined Undergraduate/Graduate program are encouraged to make an initial contact with the NREP Director after the first semester of their sophomore year for counseling on application procedures, admissions standards, and degree completion requirements.

See "Combined Undergraduate/Graduate Degree Programs" elsewhere in this bulletin for further details.

Admission Requirements
The requirements for admission into HASS Graduate Programs are as follows:

1. An undergraduate degree with a cumulative grade point average (GPA) at or above 3.0 (4.0 scale) or be a CSM undergraduate with a minimum GPA of 3.0 in HASS course work.
2. The GRE is required for most applicants. GRE are waived for current MINES students and (with the NREP Director's approval) can be waived for those with 5+ years of relevant experience. GMAT scores may be used in lieu of the GRE.
3. For students whose native language is not English, Mines requires a minimum TOEFL score of 79 internet-based test (iBT) or 550 paper-based test (PBT). Tests must have been taken within the past two years to be accepted. If you have completed a university degree program in the United States or in an English speaking country within the previous two years, you do NOT have to submit TOEFL scores.

Master of Science in Natural Resources & Energy Policy (Non-Thesis)
The multidisciplinary NREP degree aims to train engineers and social scientists in the critical skills needed to respond to domestic and global challenges related to natural resources and energy issues in the 21st century. The program trains students in quantitative and qualitative methods as well as enhancing their skills to critically analyze natural resource, environment, and energy issues and to implement complex solutions in diverse social and political settings. Students engage in research- and writing-intensive assignments with a strong focus on verbal and written communication skills.

Graduates will gain in-depth knowledge of political risk analysis and mitigation, laws and regulations related to the extractive industries and the environment, principles of social responsibility, tools for community outreach and problem-solving, anti-corruption policies, and the politics and policies processes behind local, national, and global policymaking.

Designed for both early and mid-career professionals, the degree targets the following jobs: policy, government affairs, risk management, community development, social responsibility, and similar positions in energy, environment, and mining companies; local, state, and federal government positions related to energy and resources; and non-profit organizations (advocacy, trade associations, etc.) working on energy and natural resources issues.
NREP is a professional degree that requires 30 credit hours: 18 in the core and 12 in electives. Students are encouraged to pursue internships which may count toward elective credits. Transfer students may apply up to 6 credit hours for courses that meet our requirements.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HASS593</td>
<td>NATURAL RESOURCES &amp; ENERGY POLICY: THEORIES AND PRACTICE</td>
<td>3.0</td>
</tr>
<tr>
<td>PEGN530</td>
<td>ENVIRONMENTAL, ENERGY, AND NATURAL RESOURCES LAW</td>
<td>3.0</td>
</tr>
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<tr>
<td>ELECT</td>
<td>QUANTITATIVE METHODS ELECTIVE</td>
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<tr>
<td></td>
<td><strong>Total Semester Hrs</strong></td>
<td><strong>18.0</strong></td>
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Approved Quantitative Methods course list:

<table>
<thead>
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<tbody>
<tr>
<td>EBGN590</td>
<td>ECONOMETRICS I</td>
<td>3.0</td>
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<tr>
<td>MATH530</td>
<td>STATISTICAL METHODS I</td>
<td>3.0</td>
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<tr>
<td>MNGN565</td>
<td>MINE RISK MANAGEMENT</td>
<td>3.0</td>
</tr>
<tr>
<td>GEGN532</td>
<td>GEOLOGICAL DATA ANALYSIS</td>
<td>3.0</td>
</tr>
<tr>
<td>GEGN575</td>
<td>APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS</td>
<td>3.0</td>
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</table>

• With the NREP Graduate Director’s approval, students may also take an online graduate-level course.

**Approved Electives by Areas of Interest**

4 courses (12 credit hours); at least 6 credit hours in HASS. Students may apply up to two 400-level courses (6 credit hours) in areas consistent with the degree and with the Graduate Director’s approval. Mines students in the BS/MS program may double-count up to 6 credit hours. Other electives may be approved on a case-by-case basis.

Students are encouraged to focus on one of the following areas of interest and/or to get a Minor in a related discipline, such as Environmental Engineering or Mining. Some courses have prerequisites or are primarily for engineers in those fields; students should check with the professor before taking the course.

**International Development and Global Issues**

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<thead>
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<tr>
<td>HASS535</td>
<td>INTERNATIONAL DEVELOPMENT</td>
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<tr>
<td>HASS558</td>
<td>NATURAL RESOURCES AND DEVELOPMENT</td>
<td>3.0</td>
</tr>
<tr>
<td>HASS91</td>
<td>ENERGY POLITICS</td>
<td>3.0</td>
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<tr>
<td>HASS92</td>
<td>ENERGY AND SECURITY POLICY</td>
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**Energy and Environmental Studies**

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<tr>
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<tbody>
<tr>
<td>HASS521</td>
<td>ENVIRONMENTAL PHILOSOPHY</td>
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<tr>
<td>HASS525</td>
<td>ENVIRONMENTAL COMMUNICATION</td>
<td>3.0</td>
</tr>
<tr>
<td>HASS587</td>
<td>ENVIRONMENTAL POLITICS AND POLICY</td>
<td>3.0</td>
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</tr>
<tr>
<td>CEEN591</td>
<td>ENVIRONMENTAL PROJECT MANAGEMENT</td>
<td>3.0</td>
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<tr>
<td>CEEN593</td>
<td>ENVIRONMENTAL PERMITTING AND REGULATORY COMPLIANCE</td>
<td>3.0</td>
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<tr>
<td>CEEN573</td>
<td>RECLAMATION OF DISTURBED LANDS</td>
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<tr>
<td>CEEN574</td>
<td>SOLID WASTE MINIMIZATION AND RECYCLING</td>
<td>3.0</td>
</tr>
<tr>
<td>CEEN575</td>
<td>HAZARDOUS WASTE SITE REMEDIATION</td>
<td>3.0</td>
</tr>
<tr>
<td>CEEN576</td>
<td>POLLUTION PREVENTION: FUNDAMENTALS AND PRACTICE</td>
<td>3.0</td>
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<tr>
<td>CEEN595</td>
<td>ANALYSIS OF ENVIRONMENTAL IMPACT</td>
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<tr>
<td>EBGN570</td>
<td>ENVIRONMENTAL ECONOMICS</td>
<td>3.0</td>
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<tr>
<td>CEEN556</td>
<td>MINING AND THE ENVIRONMENT</td>
<td>3.0</td>
</tr>
<tr>
<td>CEEN573</td>
<td>RECLAMATION OF DISTURBED LANDS</td>
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</tr>
<tr>
<td>MNGN501</td>
<td>REGULATORY MINING LAWS AND CONTRACTS</td>
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<tr>
<td>MNGN503</td>
<td>MINING TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT</td>
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<tr>
<td>MNGN510</td>
<td>FUNDAMENTALS OF MINING AND MINERAL RESOURCE DEVELOPMENT</td>
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</tr>
<tr>
<td>MNGN540</td>
<td>CLEAN COAL TECHNOLOGY</td>
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<tr>
<td>EBGN509</td>
<td>MATHEMATICAL ECONOMICS</td>
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<tr>
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<td>NATURAL RESOURCE ECONOMICS</td>
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<tr>
<td>EBGN530</td>
<td>ECONOMICS OF INTERNATIONAL ENERGY MARKETS</td>
<td>3.0</td>
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<tr>
<td>EBGN594</td>
<td>TIME-SERIES ECONOMETRICS</td>
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<tr>
<td>EBGN632</td>
<td>PRIMARY FUELS</td>
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<tr>
<td>GEOL514</td>
<td>BUSINESS OF ECONOMIC GEOLOGY</td>
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<tr>
<td>MATH530</td>
<td>STATISTICAL METHODS I</td>
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Courses approved for Quantitative Methods may also be taken as electives.

**Certificate in Natural Resources and Energy Policy**

Designed to be completed in a single semester, or over two semesters for part-time students, the Certificate in Natural Resources & Energy Policy (NREP) is a 12 credit-hour program affiliated with the MS in NREP.

To earn the certificate, students must take four of the six required courses for the Master’s program:

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<tr>
<td>MATH530</td>
<td>STATISTICAL METHODS I</td>
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</tr>
</tbody>
</table>
Professors
Elizabeth Van Wie Davis
Kenneth Osgood,

Associate Professors
Hussein A. Amery, Division Director
Tina L. Gianquitto
Kathleen J. Hancock
John R. Heilbrunn
Jon A. Leydens
James D. Straker

Assistant Professors
Adrienne Kroepsch

Teaching Professors
Sarah J. Hitt, McBride Honors Program Director
Robert Klimek
Toni Lefton
Sandy Woodson, Faculty Undergraduate Advisor

Teaching Associate Professors
Joseph Horan, Associate Division Director
Jonathan H. Cullison
Paula A. Farca
Cortney E. Holles
Derrick Hudson
Rose Pass

Teaching Assistant Professors
Melanie Brandt
Olivia Burgess
Rachel Osgood
Seth Tucker

Research Assistant Professor
Qin Zhu

Hennebach Visiting Scholar
Shannon Mancus

Professors Emeriti
W. John Cieslewicz
T. Graham Hereford
Barbara M. Olds
Eul-Soo Pang
Anton G. Pegis
Thomas Philipose, University Emeritus Professor
Arthur B. Sacks
Joseph D. Sneed

Associate Professors Emeriti
Betty J. Cannon
Kathleen H. Ochs
Laura J. Pang
Karen B. Wiley

Courses

HASS521. ENVIRONMENTAL PHILOSOPHY AND POLICY. 3.0 Semester Hrs.
Equivalent with LAIS521,
Analyzes environmental ethics and philosophy including the relation of philosophical perspectives to policy decision making. Critically examines often unstated ethical and/or philosophical assumptions about the environment and how these may complicate and occasionally undermine productive policies. Policies that may be considered include environmental protection, economic development, and energy production and use. 3 hours seminar; 3 semester hours.

HASS523. ADVANCED SCIENCE COMMUNICATION. 3.0 Semester Hrs.
Equivalent with LAIS523,
This course will examine historical and contemporary case studies in which science communication (or miscommunication) played key roles in shaping policy outcomes and/or public perceptions. Examples of cases might include the recent controversies over hacked climate science emails, nuclear power plant siting controversies, or discussions of ethics in classic environmental cases, such as the Dioxin pollution case. Students will study, analyze, and write about science communication and policy theories related to scientific uncertainty; the role of the scientist as communicator; and media ethics. Students will also be exposed to a number of strategies for managing their encounters with the media, as well as tools for assessing their communication responsibilities and capacities. 3 hours seminar; 3 semester hours.
HASSS25. ENVIRONMENTAL COMMUNICATION. 3.0 Semester Hrs.
Equivalent with LAIS525,
(I, II, S) This course explores the ways that messages about the environment and environmentalism are communicated in the mass media, fine arts, and popular culture. The course will introduce students to key readings in environmental communication, media studies, and cultural studies in order to understand the many ways in which the images, messages, and politics of environmentalism and the natural world are constructed and contested by diverse audiences. Students will critically analyze their roles as science and/or technology communicators in the context of environmental issues, and will apply their skills to creating communications projects for diverse audiences. 3 lecture hours, 3 semester hours.

HASSS35. INTERNATIONAL DEVELOPMENT. 3.0 Semester Hrs.
Equivalent with LAIS535,
(I, II, S) Examines the relationship between natural resources and wars in Africa. The course helps students understand contemporary developments in the world. Empirical evidence from case studies help students develop a deeper understanding of the curse of extractive industries; and corporate social responsibility. Readings are drawn from policy studies, economics, and political science to provide students an understanding of different theoretical approaches from the social sciences to explain the relationship between abundant natural resources and war in Africa. The course helps students apply the different theories to specific cases and productive sectors. 3 hours lecture, 3 semester hours.

HASSS41. AFRICAN DEVELOPMENT. 3.0 Semester Hrs.
Equivalent with LAIS541,
Provides a broad overview of the political economy of Africa. Its goal is to give students an understanding of the possibilities of African development and the impediments that currently block its economic growth. Despite substantial natural resources, mineral reserves, and human capital, most African countries remain mired in poverty. The struggles that have arisen on the continent have fostered thinking about the curse of natural resources where countries with oil or diamonds are beset with political instability and warfare. Readings give first an introduction to the continent followed by a focus on the specific issues that confront African development today. 3 hours lecture and discussion; 3 semester hours.

HASSS42. NATURAL RESOURCES AND WAR IN AFRICA. 3.0 Semester Hrs.
Equivalent with LAIS542,
Examines the relationship between natural resources and wars in Africa. It begins by discussing the complexity of Africa with its several many languages, peoples, and geographic distinctions. Among the most vexing challenges for Africa is the fact that the continent possesses such wealth and yet still struggles with endemic warfare, which is hypothetically caused by greed and competition over resource rents. Readings are multidisciplinary and draw from policy studies, economics, and political science. Students will acquire an understanding of different theoretical approaches from the social sciences to explain the relationship between abundant natural resources and war in Africa. The course helps students apply the different theories to specific cases and productive sectors. 3 hours lecture and discussion; 3 semester hours.

HASSS445. INTERNATIONAL POLITICAL ECONOMY. 3.0 Semester Hrs.
Equivalent with LAIS545,
Introduces students to the field of International Political Economy (IPE). IPE scholars examine the intersection between economics and politics, with a focus on interactions between states, organizations, and individuals around the world. Students will become familiar with the three main schools of thought on IPE: Realism (mercantilism), Liberalism, and Historical Structuralism (including Marxism and feminism) and will evaluate substantive issues such as the role of international organizations (the World Trade Organization, the World Bank, and the International Monetary Fund), the monetary and trading systems, regional development, international development, foreign aid, debt crises, multinational corporations, and globalization. 3 hours seminar; 3 semester hours.

HASSS50. POLITICAL RISK ASSESSMENT. 3.0 Semester Hrs.
Equivalent with LAIS550,
Uses social science analytical tools and readings as well as indices prepared by organizations, such as the World Bank and the International Monetary Fund, to create assessments of the political, social, economic, environmental and security risks that multinational corporations may face as they expand operations around the world. Students will develop detailed political risk reports for specific countries that teams collectively select. Prerequisite: HASS 545 and IPE Minor. 3 hours seminar; 3 semester hours.

HASSS52. CORRUPTION AND DEVELOPMENT. 3.0 Semester Hrs.
Equivalent with LAIS552,
Addresses the problem of corruption and its impact on development. Readings are multidisciplinary and include policy studies, economics, and political science. Students will acquire an understanding of what constitutes corruption, how it negatively affects development, and what they, as engineers in a variety of professional circumstances, might do in circumstances in which bribe paying or taking might occur. 3 hours lecture and discussion; 3 semester hours.

HASSS58. NATURAL RESOURCES AND DEVELOPMENT. 3.0 Semester Hrs.
Equivalent with LAIS558,
Examines the relationship between natural resources and development. It begins by discussing theories of development and how those theories account for specific choices among resource abundant countries. From the theoretical readings, students examine sector specific topics in particular cases. These subjects include oil and natural gas in African and Central Asian countries; hard rock mining in West Africa and East Asia; gemstone mining in Southern and West Africa; contracting in the extractive industries; and corporate social responsibility. Readings are multidisciplinary and draw from policy studies, economics, and political science to provide students an understanding of different theoretical approaches from the social sciences to explain the relationship between abundant natural resources and development. 3 hours lecture and discussion; 3 semester hours.

HASSS60. GLOBAL GEOPOLITICS. 3.0 Semester Hrs.
Equivalent with LAIS560,
Examines geopolitical theories and how they help us explain and understand contemporary developments in the world. Empirical evidence from case studies help students develop a deeper understanding of the interconnections between the political, economic, social, cultural and geographic dimensions of governmental policies and corporate decisions. Prerequisites: any two IPE courses at the 300-level, or one IPE course at the 400 level. 3 hours lecture and discussion; 3 semester hours.
HASS565. SCIENCE, TECHNOLOGY, AND SOCIETY. 3.0 Semester Hrs.
Equivalent with LAIS565.
Provides an introduction to foundational concepts, themes, and questions developed within the interdisciplinary field of science and technology studies (STS). Readings address anthropological understandings of laboratory practice, sociological perspectives on the settling of techno-scientific controversies, historical insights on the development of scientific institutions, philosophical stances on the interactions between technology and humans, and relationships between science and democracy. Students complete several writing assignments, present material from readings and research, and help to facilitate discussion. 3 hours lecture and discussion; 3 semester hours.

HASS586. SCIENCE AND TECHNOLOGY POLICY. 3.0 Semester Hrs.
Equivalent with LAIS586.
Examines current issues relating to science and technology policy in the United States and, as appropriate, in other countries. 3 hours lecture and discussion; 3 semester hours.

HASS587. ENVIRONMENTAL POLITICS AND POLICY. 3.0 Semester Hrs.
Equivalent with LAIS587.
Explores environmental policies and the political and governmental processes that produce them. Group discussion and independent research on specific environmental issues. Primary but not exclusive focus on the U.S. 3 hours lecture and discussion; 3 semester hours.

HASS588. WATER POLITICS AND POLICY. 3.0 Semester Hrs.
Equivalent with LAIS588.
Examines water policies and the political and governmental processes that produce them, as an example of natural resource politics and policy in general. Group discussion and independent research on specific politics and policy issues. Primary but not exclusive focus on the U.S. 3 hours lecture and discussion; 3 semester hours.

HASS590. ENERGY AND SOCIETY. 3.0 Semester Hrs.
Equivalent with LAIS590.
(I) The course begins with a brief introduction to global energy production and conservation, focusing on particular case studies that highlight the relationship among energy, society, and community in different contexts. The course examines energy successes and failures wherein communities, governments, and/or energy companies come together to promote socially just and economically viable forms of energy production/conservation. The course also explores conflicts driven by energy development. These case studies are supplemented by the expertise of guest speakers from industry, government, NGOs, and elsewhere. Areas of focus include questioning the forward momentum of energy production, its social and environmental impact, including how it distributes power, resources and risks across different social groups and communities. 3 hours seminar; 3 semester hours.

HASS591. ENERGY POLITICS. 3.0 Semester Hrs.
(I) We will use political science approaches, theories, and methods to investigate the global, regional, state, and local politics of renewable and non-renewable energy, spanning all uses: transportation, heating and cooling, and electricity. We will look at the politics behind energy in a subset of countries to be chosen by the class, such as China, Brazil, India, Austria, Spain, Venezuela, and Germany. We will then focus on energy in Colorado (and possibly a few other US states), conducting primary research on the stakeholders and the relevant political outcomes for non-renewables and renewables, making comparisons between the two groups. We will work with energy companies, non-governmental organizations, university and research entities, government representatives, and local activists. 3 lecture hours, 3 semester hours.

HASS592. ENERGY AND SECURITY POLICY. 3.0 Semester Hrs.
(II) Energy and Security Policy is a graduate course that applies a social science lens to understanding the intersections between national and international security concerns and energy. In this course, we will examine these intersections through a case study approach that includes directed readings, such as books and peer-reviewed journal articles, that incorporate student-led discussions and research projects. By exploring various energy security scenarios, such as restricted access to oil and gas, graduate students will gain a comprehensive understanding of the energy-security nexus and the role governments and policies play in enhancing or limiting security. 3 hours lecture, 3 semester hours.

HASS593. NATURAL RESOURCES & ENERGY POLICY: THEORIES AND PRACTICE. 3.0 Semester Hrs.
(I) This course introduces students to the policy-making process, drawing on a variety of theoretical approaches, geographic locations (within the US and in other countries), and resources and energy issues. Coordinated by the NREP Graduate Director, speakers will be from HASS, Economics and Business, Petroleum Engineering, Mining, and other departments with policy expertise, as well as from others who influence and create public and private policy. In the second half of the course, students will conduct original research projects that focus on natural resources and energy, applying theoretical frameworks they have learned from the speakers. 3 lecture hours, 3 semester hours.

HASS598. SPECIAL TOPICS. 6.0 Semester Hrs.
(I, II, S) Pilot course or special topics course. Topics chosen from special interests of instructor(s) and student(s). Usually the course is offered only once, but no more than twice for the same course content. Prerequisite: none. Variable credit: 0 to 6 credit hours. Repeatable for credit under different titles.

HASS599. INDEPENDENT STUDY. 0.5-6 Semester Hr.
(I, II, S) Individual research or special problem projects supervised by a faculty member, also, when a student and instructor agree on a subject matter, content, and credit hours. Prerequisite: ?Independent Study? form must be completed and submitted to the Registrar. Variable credit: 0.5 to 6 credit hours. Repeatable for credit under different topics/experience and maximums vary by department. Contact the Department for credit limits toward the degree.

HASS601. ACADEMIC PUBLISHING. 2-3 Semester Hr.
Equivalent with LAIS601.
Students will finish this course with increased knowledge of general and discipline - specific writing conversations as well as the ability to use that knowledge in publishing portions of theses or dissertations. Beyond the research article, students will also have the opportunity to learn more about genres such as conference abstracts, conference presentations, literature reviews, and research funding proposals. Prerequisite: Must have completed one full year (or equivalent) of graduate school course work. Variable credit: 2 or 3 semester hours.

HASS698. SPECIAL TOPICS. 6.0 Semester Hrs.
(I, II, S) Pilot course or special topics course. Topics chosen from special interests of instructor(s) and student(s). Usually the course is offered only once, but no more than twice for the same course content. Prerequisite: none. Variable credit: 0 to 6 credit hours. Repeatable for credit under different titles.
HASS699. INDEPENDENT STUDY. 0.5-6 Semester Hr.
(I, II, S) Individual research or special problem projects supervised by a faculty member, also, when a student and instructor agree on a subject matter, content, and credit hours. Prerequisite: Independent Study? form must be completed and submitted to the Registrar. Variable credit: 0.5 to 6 credit hours. Repeatable for credit under different topics/experience and maximums vary by department. Contact the Department for credit limits toward the degree.

HASS707. GRADUATE THESIS / DISSERTATION RESEARCH CREDIT. 1-15 Semester Hr.
Equivalent with LAIS707.
(I, II, S) GRADUATE THESIS/DISSERTATION RESEARCH CREDIT
Research credit hours required for completion of a Masters-level thesis or Doctoral dissertation. Research must be carried out under the direct supervision of the student’s faculty advisor. Variable class and semester hours. Repeatable for credit.

LICM501. PROFESSIONAL ORAL COMMUNICATION. 1.0 Semester Hr.
A five-week course which teaches the fundamentals of effectively preparing and presenting messages. “Hands-on” course emphasizing short (5- and 10-minute) weekly presentations made in small groups to simulate professional and corporate communications. Students are encouraged to make formal presentations which relate to their academic or professional fields. Extensive instruction in the use of visuals. Presentations are rehearsed in class two days prior to the formal presentations, all of which are video-taped and carefully evaluated. 1 hour lecture/lab; 1 semester hour.