

SOCIAL SCIENCES (SOCSC-UH)

SOCSC-UH 1010Q Statistics for the Social and Behavioral Sciences (4 Credits)

Typically offered Fall and Spring

This course introduces students to the basics of statistics and probability, which are building blocks for much of the research that is done in Social Science. The course gives students an overview of descriptive and inferential statistics, with emphasis on conceptual understanding and statistical thinking. There is heavy concentration on the big picture: What questions are we trying to address and what can we conclude from our analysis. Throughout the course real data from several social science disciplines will be integrated and studied using state of the art software tools. At the end of the semester students should know the difference between populations and samples, how to design experiments, how to summarize and analyze the results of a statistical experiment, how to test basic hypotheses and how to communicate statistical insights.

Grading: Ugrd Abu Dhabi Graded

Repeatable for additional credit: No

Prerequisites: MATH-UH 1000A or Math Proficiency Assessment.

- Bulletin Categories: BOS Major: Social Science Required
- Bulletin Categories: Economics Major: Social Science Required
- Bulletin Categories: Political Science Major: Social Science Required
- Bulletin Categories: Political Science
- Bulletin Categories: SRPP. Major Soc Sci Required
- Bulletin Categories: Social Research Public Policy
- Bulletin Categories: Social Science Foundations
- Bulletin Categories: Social Science: Required
- Crosslisted with: Business, Organizations, and Society
- Crosslisted with: Economics Major: Required
- Crosslisted with: Economics
- Crosslisted with: Political Science Major: Social Science Required
- Crosslisted with: Political Science
- Crosslisted with: SRPP. Major Soc Sci Required
- Crosslisted with: Social Research Public Policy

SOCSC-UH 1011 Global Economic, Political and Social Development (4 Credits)

Typically offered Fall and Spring

Why did some countries industrialize before others? How can we explain the great divergence in per capita income across countries? What are the social and political impacts of economic growth? What is the role of political institutions in underpinning economic progress? This course addresses these and other similar questions using simple tools from across the social sciences. Particular emphasis is placed on understanding the role of economic incentives and political institutions in underpinning economic and social development. NOTE: Students may use CSTS-UH 1021EQ or HIST-UH 2010 in place of SOCSC-UH 1011 (GEPS) for Social Science Majors or Minors.

Grading: Ugrd Abu Dhabi Graded

Repeatable for additional credit: No

- Bulletin Categories: Social Science: SPEH Electives

SOCSC-UH 1111 Markets (4 Credits)

Typically offered Fall and Spring

This course offers students an introduction to how economists look at the world and approach problems. It focuses on individual economic decision-makers (households, business firms, and government agencies) and explores how they are linked together and how their decisions shape our economic life. Applications of supply and demand analysis and the role of prices in a market system are explored. Students are also exposed to the theory of the competitive firm, the idea of market failure, and policy responses. The course relies on cases and examples and incorporates readings to shed light on modern economic principles and their application to solving the problems that face the global economy.

Grading: Ugrd Abu Dhabi Graded

Repeatable for additional credit: No

- Bulletin Categories: BOS Major: Social Science Required
- Bulletin Categories: Behavioral Institutional Design Minor: Required
- Bulletin Categories: Economics Major: Social Science Required
- Bulletin Categories: Mathematics: Breadth Electives
- Bulletin Categories: Social Science: Foundations Electives
- Crosslisted with: Behavioral Institutional Design
- Crosslisted with: Business, Organizations, and Society
- Crosslisted with: Economics Major: Required
- Crosslisted with: Economics
- Crosslisted with: Mathematics Major: Required
- Crosslisted with: Mathematics
- Crosslisted with: Social Science Foundations
- Crosslisted with: Social Science: Required

SOCSC-UH 1112 Introduction to Political Thinking (4 Credits)

Typically offered Fall and Spring

This course provides an introduction to some of the primary questions in the study of politics and the theories used by political scientists to understand the world. Among other questions, students will consider why we live in nation states, why peaceful solutions can be so elusive, and why the will of the majority often goes unrealized. The course focuses on individual decision makers in the world of politics (citizens, voters, legislators) and explores how they are linked together and how their decisions shape political outcomes. The course also explores how political institutions, such as electoral rules or the design of legislatures, can structure the interactions of these actors. The course relies on cases and examples and incorporates readings from classical and contemporary sources to illustrate how these theories of political behavior and institutions can shed light on current political events.

Grading: Ugrd Abu Dhabi Graded

Repeatable for additional credit: No

- Bulletin Categories: Political Science Major: Social Science Required
- Bulletin Categories: Political Science
- Bulletin Categories: SRPP. Institutions Public Policy
- Bulletin Categories: Social Science: Foundations Electives
- Crosslisted with: Political Science Major: Social Science Required
- Crosslisted with: Political Science
- Crosslisted with: SRPP. Major Soc Sci Required
- Crosslisted with: Social Research Public Policy
- Crosslisted with: Social Science Foundations
- Crosslisted with: Social Science: Required

SOCSC-UH 1113 Introduction to the Study of Society (4 Credits)*Typically offered Fall and Spring*

This course provides an introduction to sociological analysis and the distinctive sociological way of thinking. It examines the emergence, maintenance, and transformation of social order, the social construction of reality, and the relationship between the individual and society. We will focus on big structural questions all the way to questions about face-to-face human interaction. Along the way, we will think about how evidence is used in sociological explanations, the relationship between the researcher and the researched, and how to effectively communicate sociological ideas in writing.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No

- Bulletin Categories: SRPP. Major Soc Sci Required
- Bulletin Categories: Social Research Public Policy
- Bulletin Categories: Social Science: Foundations Electives
- Crosslisted with: SRPP. Major Soc Sci Required
- Crosslisted with: Social Research Public Policy
- Crosslisted with: Social Science Foundations
- Crosslisted with: Social Science: Required

SOCSC-UH 1310 Foundations of Modern Social Thought (4 Credits)*Typically offered Fall and Spring*

This course explores major works of Western political and social theory from the beginning of the modern era through the 1920s. Attention is paid to social and intellectual context, conceptual frameworks and methods, and contributions to contemporary social analysis. Theorists include Hobbes, Locke, Montesquieu, Rousseau, Smith, Mill, Marx, Du Bois, Weber, Durkheim, and Freud.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No

- Bulletin Categories: Social Science: SPET Electives

SOCSC-UH 1311 Introduction to Political Theory (4 Credits)*Typically offered Fall and Spring*

In a world where interests and values often conflict, how should societies be governed? Which form of government is best? Have we reached what Francis Fukuyama famously termed 'The End of History' - the notion that there are no serious contenders to liberal democracy? Subjects in this course include ancient and modern theorists such as Aristotle, Machiavelli, Montesquieu, and Burke as well as contemporary Chinese critics of Western liberal democracy. NOTE: Students may take either SOCSC-UH 1311 or PHIL-UH 2614 towards the Social Science Foundations SPET requirement.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No

- Bulletin Categories: Philosophy: Practical Philosophy Electives
- Bulletin Categories: Social Science: SPET Electives

SOCSC-UH 1312 Modern Social Theory in Comparative Perspective (4 Credits)*Typically offered Fall*

This course focuses on major works that take a critical position vis-à-vis the Western canon. It will explore themes of power, identity, inequality, and social order in the context of modern nationalism, capitalism, and imperialism. To provide context, the course will begin with core thinkers from the Western canon, ranging from John Locke to Sigmund Freud. Then it will focus on the response of their critics, including feminists and postcolonial writers from across the globe such as Mary Wollstonecraft, Mao Zedong, Frantz Fanon, Mohandas K. Gandhi, and Edward Said.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No

- Bulletin Categories: Social Science: SPET Electives

SOCSC-UH 1313 Perspectives on Democracy (4 Credits)*Typically offered Spring*

What is democracy? Since its inception, the concept of democracy, and perspectives on whom the people are that can or should partake in it, have evolved. This course will explore three key movements in the expansion of democracy: (i) against slavery, (ii) against the patriarchal institutions, and (iii) against colonialism. The course will then explore different understandings of democracy in the contemporary era, shedding light on its canonical liberal version, attempts at its expansions in non-centric countries, and recent criticisms of some of its foundations. Democracy is usually approached, understood and framed from the perspectives of well-established canons in the United States and Western European countries. Importantly, as part of this course, students will also be exposed to work on democracy from non-canonical perspectives and authors. The course relies on classical and contemporary readings and various materials that cut across the Social Sciences and Humanities.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No

- Bulletin Categories: Core: Structures of Thought Society
- Bulletin Categories: Social Science: SPET Electives

SOCSC-UH 1314 Sociological Theory (4 Credits)*Typically offered Fall*

This course explores major works of 19th- and 20th-century sociological theory. Readings include classical texts by Smith, Marx, Weber and Durkheim, as well as a selection of influential modern writings, including work by Foucault, Bourdieu, Goffman, Giddens, Said, Abu-Lughod, and Hill Collins. The course explores inequality and power in capitalist societies; the relationship between culture, technology and domination; the social construction of the self; the omnipresence of social control in modern institutions; and the interrelationship between power and knowledge. Students will leave the course with a set of conceptual tools to help them make sense of the social world in which they live.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No

- Bulletin Categories: Social Science: SPET Electives

SOCSC-UH 2211 Survey Research (4 Credits)*Typically offered Fall and Spring*

This course will teach students how to design and implement a survey, and what to do once the data is in. The course is practice oriented: the course will use a lot of examples and students will create their own survey design. Students will spend more than a quarter of the course learning Stata. At the end of this course students will be able to design and implement their own, high quality survey. Moreover, students will question much of the data that is collected by others because they know all the things that can go wrong in the process.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No**Prerequisites:** SOCSC-UH 1010Q.

- Bulletin Categories: BOS: Methods and Analytics Electives
- Bulletin Categories: Behavioral Institutional Design Minor: Electives
- Bulletin Categories: Political Science: Methods
- Bulletin Categories: SRPP: Methods Electives
- Crosslisted with: Behavioral Institutional Design
- Crosslisted with: Business, Organizations, and Society
- Crosslisted with: Economics Major: Required
- Crosslisted with: Economics
- Crosslisted with: Political Science Major: Social Science Required
- Crosslisted with: Political Science
- Crosslisted with: SRPP: Major Soc Sci Required
- Crosslisted with: Social Research Public Policy

SOCSC-UH 2212 Research Design & Causality in Social Science (4 Credits)*Typically offered Fall and Spring*

This course will provide students with the "foundations" to undertake research in social science. You will learn how to identify an interesting research question. You will be introduced to different approaches that social scientists take to answer these questions. And because many of the questions we are interested in are causal (What leads to Y? What is the impact of X?), you will learn about different strategies to get at causality. We will also discuss other key issues related to good research like transparency and ethics. This class is hands-on. During the course you will create your own research design. Furthermore, we will make use of examples to critically evaluate existing research. This class is highly recommended to students who plan to write a capstone or a research paper.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No**Corequisites:** SOCSC-UH 1010Q.

- Bulletin Categories: BOS: Methods and Analytics Electives
- Bulletin Categories: Behavioral Institutional Design Minor: Required
- Bulletin Categories: Economics: Data Science Economics Track
- Bulletin Categories: Political Science: Methods
- Bulletin Categories: SRPP: Methods Electives
- Bulletin Categories: Social Science: Methods Electives
- Crosslisted with: Behavioral Institutional Design
- Crosslisted with: Business, Organizations, and Society
- Crosslisted with: Economics Major: Required
- Crosslisted with: Economics
- Crosslisted with: Political Science Major: Social Science Required
- Crosslisted with: Political Science
- Crosslisted with: SRPP: Major Soc Sci Required
- Crosslisted with: Social Research Public Policy

SOCSC-UH 2213 Textual Analysis for the Social Sciences (4 Credits)*Typically offered Fall*

The computational analysis of large amounts of written material is becoming increasingly popular in the social sciences. Recent research has used textual analysis to examine, for example, attitudes, culture, and propaganda. This approach, however, raises many questions. What is textual data actually showing us? How representative are textual datasets? Does textual analysis provide insight into social mechanisms and causal processes? This course will address these, and related, questions by providing a foundational introduction to textual analysis for the social sciences. Students will read a combination of early, theory-oriented articles and recent, cutting-edge research. In addition, students will learn how to conduct textual analysis for the social sciences through a series of labs and an original final project.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No**Prerequisites:** ECON-UH 2020 or POLSC-UH 2211; and familiarity with R is strongly recommended.

- Bulletin Categories: Economics: Data Science Economics Track
- Bulletin Categories: Political Science: Methods
- Bulletin Categories: SRPP. Methods Electives
- Bulletin Categories: Social Science: Methods Electives
- Crosslisted with: Economics Major: Required
- Crosslisted with: Economics
- Crosslisted with: Political Science Major: Social Science Required
- Crosslisted with: Political Science
- Crosslisted with: SRPP. Major Soc Sci Required
- Crosslisted with: Social Research Public Policy

SOCSC-UH 2214 Applied Data Science (4 Credits)*Typically offered Spring*

This will be an applied course that will introduce students to the python programming environment. It is intended for students who want to apply statistical analysis, information visualization, machine learning, text analysis, and data collection techniques through popular python toolkits such as scipy, numpy, pandas, matplotlib, seaborn, beautiful soup, scikit-learn, nltk, and more to gain insight into any data. By the end of this course, students will be able to: (1) take any tabular data, clean it, manipulate it, and run inferential statistical analysis, (2) identify best practices in data visualizations, (3) identify the difference between supervised (classification) and unsupervised (clustering) techniques, and identify which technique they need to apply for a particular dataset and need, as well as, engineer features to meet that need, (4) be able to perform basic text mining and text manipulation, and (5) be able collect large amounts of data via some form of automation. The basic programming knowledge expected involves knowing how to print statements, assign values to variables, write an if-statement, and write for and while loops. Students with no prior programming experience will be provided with a short (ungraded) assignment at the beginning of the course covering all the basic knowledge they expect to have in order to continue with the course.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No**Prerequisites:** SOCSC-UH 1010Q.

- Bulletin Categories: BOS: Methods and Analytics Electives
- Bulletin Categories: Behavioral Institutional Design Minor: Electives
- Bulletin Categories: Economics: Data Science Economics Track
- Bulletin Categories: Mathematics: Breadth Electives
- Bulletin Categories: Political Science: Methods
- Bulletin Categories: SRPP. Methods Electives
- Bulletin Categories: Social Science: Methods Electives
- Crosslisted with: Behavioral Institutional Design
- Crosslisted with: Business, Organizations, and Society
- Crosslisted with: Economics Major: Required
- Crosslisted with: Economics
- Crosslisted with: Political Science Major: Social Science Required
- Crosslisted with: Political Science
- Crosslisted with: SRPP. Major Soc Sci Required
- Crosslisted with: Social Research Public Policy
- Crosslisted with: Social Science Foundations
- Crosslisted with: Social Science: Required

SOCSC-UH 3210 Advanced Game Theory (4 Credits)*Typically offered Spring*

This course continues the study of game theory and its applications to the social sciences. The course is divided into two parts. Part 1 studies non-cooperative game theory: Nash equilibrium in static games; extensions such as subgame perfection for dynamic games of complete information; Bayesian Nash equilibrium for static games with incomplete information; and sequential equilibrium (with refinements) for dynamic games with incomplete information. Applications to the social sciences include strategic choice of electoral platforms, collusion, lobbying, bargaining, and signaling. Part 2 studies cooperative game theory, including common solution concepts such as the core and the stable set, as well as hybrid topics such as coalition and network formation, or mechanism design. Applications include: political party formation; dynamic agenda-setting; the construction and implementation of voting rules; and the study of social networks.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No**Prerequisites:** MATH-UH 1021 or consent by Program Head.

- Bulletin Categories: Category A (Applied Mathematics)
- Bulletin Categories: Econ Conc: Quantitative Econ Analysis Elective
- Bulletin Categories: Economics: Behavioral Experimental Track
- Bulletin Categories: Economics: Economic Theory Track
- Bulletin Categories: Political Science: Methods
- Bulletin Categories: SRPP. Methods Electives
- Crosslisted with: Economics Major: Required
- Crosslisted with: Economics
- Crosslisted with: Mathematics Major: Required
- Crosslisted with: Mathematics
- Crosslisted with: Political Science Major: Social Science Required
- Crosslisted with: Political Science
- Crosslisted with: SRPP. Major Soc Sci Required
- Crosslisted with: Social Research Public Policy

SOCSC-UH 3220 Econometrics (4 Credits)*Typically offered Fall and Spring*

This course focuses on the application of statistics and economic theory to problems of formulating and estimating models of economic behavior. Matrix algebra is developed as the main tool of analysis in regression. The course acquaints students with basic estimation theory and techniques in the regression framework and covers extensions such as specification error tests, heteroscedasticity, errors in variables, and simple time series models. An introduction to simultaneous equation modes and the concept of identification is also provided.

Grading: Ugrd Abu Dhabi Graded**Repeatable for additional credit:** No**Prerequisites:** ECON-UH 2020 and (MATH-UH 1021 or SOCSC-UH 1201).

- Bulletin Categories: Economics Major: Required
- Bulletin Categories: Economics
- Bulletin Categories: Mathematics: Breadth Electives
- Bulletin Categories: Political Science: Political Theory Inst
- Bulletin Categories: SRPP. Methods Electives
- Bulletin Categories: Social Science: Methods Electives
- Crosslisted with: Economics Major: Required
- Crosslisted with: Economics
- Crosslisted with: Political Science Major: Social Science Required
- Crosslisted with: Political Science
- Crosslisted with: SRPP. Major Soc Sci Required
- Crosslisted with: Social Research Public Policy