BSOS - BEHAVIORAL AND SOCIAL SCIENCES

BSOS138 Special Topics in Study Abroad I (1-6 Credits)
Special topics course taken as part of an approved study abroad program.
Repeatable to: 15 credits if content differs.

BSOS180 Introduction to Data Management (1 Credit)
Learn to read data, clean data sets, and perform other vital functions (mainly in Excel). Students will develop fundamental skills that will ease the transition into future coursework (or a career) in data science or analytics. Designed for students who have minimal background in Excel or computer software.
Restriction: Must be in a major within the College of Behavioral and Social Sciences or the College of Information.
Credit Only Granted for: BSOS180 or BSOS188B.
Formerly: BSOS188B.
Additional Information: Recommended for BSOS majors who need additional support for their disciplinary stats or research methods sequence.

BSOS188 Selected Topics in the Behavioral and Social Sciences (1-3 Credits)
Introductory selected topics course dealing with interdisciplinary issues related to the social sciences.
Repeatable to: 6 credits if content differs.
Credit Only Granted for: EDCP108O or BSOS188A.

BSOS201 Ensuring your Financial Future Through Stock Investing (3 Credits)
Introduces students to investing and trading, with special emphasis on the field of technical analysis. Planning for one's financial future is a critical skill for all students. Students will learn how to evaluate companies using the investors.com website and the TC2000 stock charting program. Students will develop an idea of the risks and benefits of investing, establishing a savings strategy, opening an IRA, and strategically planning for future financial security. In addition to readings, lectures, and online videos, students will participate in virtual stock market trading exercises and manage a virtual account.
Credit Only Granted for: BSOS289I or BSOS201.
Formerly: BSOS289I.
Additional Information: No prior knowledge of the stock market or investing is expected or required.

BSOS230 Introduction to Programming for the Social Sciences: Statistical Computing using R (1 Credit)
R is an open-source programming language, specialized for statistical computing, and provides a variety of statistical and graphical techniques that might be relevant for any BSOS program, such descriptive statistics, linear and non-linear regression, text mining, image processing. The R language is increasingly often employed in advanced statistics and data analytics, offering a wide range of application packages for effective programming. This course introduces the R language and several powerful packages in form of lectures, worked-out examples, and group exercises.
Restriction: Must not have completed BSOS330; and must be enrolled in a BSOS major. Or permission of instructor.
Additional Information: Students do not need any prior experience using R.

BSOS231 Introduction to Programming for the Social Sciences: Python (1 Credit)
Python has become the most powerful programming language in advanced statistics and data analytics. It includes expansive packages for data handling and processing, including the latest developments in machine learning, and offers Integrated Development Environments (IDE) for code development, testing, debugging, and graphical representation. In addition, python is deployed on virtually all high performance computing clusters, taking advantage of multi-processing, large memory, and GPU enhanced computing environments. This course offers a thorough introduction to python and those packages that are fundamental to data processing and analysis, image processing, natural language processing, machine learning.
Restriction: Must not have completed BSOS331; and must be enrolled in a BSOS major. Or permission of instructor.
Additional Information: Students do not need any prior experience using Python.

BSOS233 Data Science for the Social Sciences (3 Credits)
An introduction to modern methods of data analysis for social scientists. This course emphasizes teaching students who have no previous coding experience how to analyze data and extract meaning in a social science context. Students will gain critical programming skills and learn inferential thinking through examples and projects with real-world relevance.
Prerequisite: Must have completed or be concurrently enrolled in STAT 100.
Restriction: Must be in a major in the College of Behavioral and Social Sciences or the College of Information Studies; or permission of instructor.

BSOS238 Special Topics in Study Abroad II (1-6 Credits)
Special topics course taken as part of an approved study abroad program.
Repeatable to: 15 credits if content differs.

BSOS240 The Problem of Prejudice: Overcoming Impediments to Global Peace and Justice (3 Credits)
What is prejudice? How are our prejudices formed? What similarities and differences are there between various forms of prejudice across race, gender, nationality, politics, religion, among others? What is the relationship between prejudice and conflict? What is the role of prejudice in thinking about issues of peace and justice? How can we better understand the role that prejudice and discrimination have in a globalizing world? What can we learn from a scientific basis of knowledge about the causes of prejudice? This course will survey interdisciplinary scholarly research and popular cultural conversations about the root causes of prejudice and discrimination. You are expected to examine empirical evidence toward formulating your own views about the impact that all forms of prejudice impose on the human condition and the role it has played in your own life. Based on research evidence, the course encourages the search for solutions to the blight of prejudice.
Credit Only Granted for: BSOS240, HNUH228Z, or HONR279L.
Formerly: HNUH228Z and HONR279L.

BSOS248 Leadership Seminar I (1-6 Credits)
A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.
Repeatable to: 9 credits.

BSOS258 Leadership Practicum I (1-6 Credits)
This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.
Repeatable to: 9 credits.

BSOS288 Special Topics in Behavioral and Social Sciences (1-3 Credits)
Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.
Repeatable to: 6 credits if content differs.

BSOS308 Contemporary Issues: Interdisciplinary Approaches (3 Credits)
An interdisciplinary analysis of current public policy issues of international, national and community import. Senior standing recommended.
Recommended: Must have Senior standing.
Repeatable to: 6 credits if content differs.

BSOS326 Python Programming for the Social Sciences (3 Credits)
Python has become the most powerful programming language in advanced statistics and data analytics. It includes expansive packages for data handling and processing, including the latest developments in machine learning, and offers Integrated Development Environments (IDE) for code development, testing, debugging, and graphical representation. This course offers a thorough introduction to Python and those packages that are fundamental to data processing and analysis.
Prerequisite: Minimum grade of C- in INST126 or BSOS233.
Restriction: Restricted to students in the Social Data Science major or by permission of the instructor.

BSOS338 Special Topics in Study Abroad III (1-6 Credits)
Special topics course taken as part of an approved study abroad program.
Repeatable to: 15 credits if content differs.

BSOS348 Leadership Seminar II (1-6 Credits)
A topics course in the behavioral and social sciences designed to develop student leaders with advanced skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.
Repeatable to: 9 credits.

BSOS355 Social Sciences Internship Practicum (3 Credits)
BSOS 355 is an internship course open to all majors. It will enable students to articulate and apply the scholarship from the discipline related to their specific internship placement into a real-work environment.
Restriction: Must have earned a minimum of 60 credits; and minimum cumulative GPA of 2.5; and must have completed at least 1 semester at UMD.
Credit Only Granted for: BSOS388I or BSOS355.
Formerly: BSOS388I.

BSOS358 Leadership Practicum II (1-6 Credits)
This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.
Repeatable to: 9 credits.

BSOS361 Academic and Career Planning for Transfer Students in the College of Behavioral and Social Sciences (1 Credit)
Students will utilize the resources of the Feller Center for Academic and Career Planning and TerrapinSTRONG to explore how their individual social identities and strengths contribute to building strong communities in personal, academic, and professional career spaces.
Restriction: Must be a first-semester transfer student in a College of Behavioral and Social Sciences major.
Additional Information: Intended for first semester transfer students in BSOS majors.

BSOS385 Big-Data Analysis on the BSOS HPC Cluster (2 Credits)
Social media are a primary source of information on social interaction and personal interests. High-performance computing (HPC) is employed to search for hidden pattern and unknown correlations using advanced machine-learning algorithms available in python and R packages. The main steps of Natural Language Processing and big-data analysis are being worked out, from examining random samples to analyzing large data sets via in-memory Monte-Carlo applications and neural networks.
Prerequisite: Students must have completed a least one college-level statistics course.
Recommended: A working knowledge of python or R is expected.
Restriction: Students must be enrolled in a BSOS major; or permission of instructor.
Credit Only Granted for: BSOS385, BSOS685, or BSOS688B.

BSOS386 Experiential Learning (3-6 Credits)

BSOS388 Behavioral and Social Sciences Special Topics (1-3 Credits)
Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.
Repeatable to: 6 credits if content differs.

BSOS399 Directed Study in Behavioral and Social Sciences (1-6 Credits)
Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

BSOS438 Special Topics in Study Abroad IV (1-6 Credits)
Special topics course taken as part of an approved study abroad program.
Repeatable to: 15 credits if content differs.

BSOS448 Teaching Assistant Practicum (1-6 Credits)
Supervised practicum for teaching assistants for BSOS/UNIV courses.
Repeatable to: 9 credits.