

Term Information

Effective Term Autumn 2014

General Information

Course Bulletin Listing/Subject Area Political Science
Fiscal Unit/Academic Org Political Science - D0755
College/Academic Group Arts and Sciences
Level/Career Undergraduate
Course Number/Catalog 3780
Course Title Data Literacy and Data Visualization
Transcript Abbreviation Data Lit & Vis
Course Description Most social science debates can be addressed with data, and sources of data are growing exponentially. This course introduces students to tools of data analysis and principles behind their use in the context of social-science applications.
Semester Credit Hours/Units Fixed: 3

Offering Information

Length Of Course 14 Week, 7 Week, 4 Week (May Session), 12 Week (May + Summer)
Flexibly Scheduled Course Never
Does any section of this course have a distance education component? No
Grading Basis Letter Grade
Repeatable No
Course Components Lecture, Recitation
Grade Roster Component Recitation
Credit Available by Exam No
Admission Condition Course No
Off Campus Never
Campus of Offering Columbus

Prerequisites and Exclusions

Prerequisites/Corequisites
Exclusions

Cross-Listings

Cross-Listings

Subject/CIP Code

Subject/CIP Code 45.1001
Subsidy Level Baccalaureate Course
Intended Rank Freshman, Sophomore, Junior, Senior

Requirement/Elective Designation

Required for this unit's degrees, majors, and/or minors

General Education course:

Data Analysis

The course is an elective (for this or other units) or is a service course for other units

Course Details

Course goals or learning objectives/outcomes

- Students will develop skills in drawing conclusions and critically evaluating results based on data.
- Students will understand basic concepts of statistics and probability.
- Students will comprehend methods needed to analyze and critically evaluate statistical arguments.
- Students will recognize the importance of statistical ideas.

Content Topic List

- Locating and obtaining data
- Design of data visualizations
- R programming
- Creating visualizations (distributional, spatial, and temporal, etc.)
- The fundamentals of probability and uncertainty
- Monte Carlo simulations for understanding probability
- The bootstrap: generalizing from a sample to a larger population
- Research design: theories, hypotheses, and hypothesizing

Attachments

- 3780 rationale and objectives.pdf: rationale and objectives

(Other Supporting Documentation. Owner: Smith,Charles William)

- Pols3780-syllabus.pdf: syllabus

(Syllabus. Owner: Smith,Charles William)

- Assessment-plan (2).pdf: assessment plan

(GEC Course Assessment Plan. Owner: Smith,Charles William)

Comments

- There are no math/stats prereqs for this course *(by Smith,Charles William on 01/27/2014 09:18 AM)*
- Wasn't there to be math and/or stats prereqs?

Re: assessment. How are the problem sets being used for assessment? How will the independent project assess the course's learning outcome -- longitudinally? *(by Haddad,Deborah Moore on 01/21/2014 05:47 PM)*

COURSE REQUEST
3780 - Status: PENDING

Last Updated: Haddad,Deborah Moore
01/27/2014

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Smith,Charles William	01/21/2014 03:32 PM	Submitted for Approval
Approved	Herrmann,Richard Karl	01/21/2014 04:54 PM	Unit Approval
Revision Requested	Haddad,Deborah Moore	01/21/2014 05:47 PM	College Approval
Submitted	Smith,Charles William	01/27/2014 09:20 AM	Submitted for Approval
Approved	Herrmann,Richard Karl	01/27/2014 09:39 AM	Unit Approval
Approved	Haddad,Deborah Moore	01/27/2014 10:11 AM	College Approval
Pending Approval	Hanlin,Deborah Kay Hogle,Danielle Nicole Jenkins,Mary Ellen Bigler Nolen,Dawn Vankeerbergen,Bernadette Chantal	01/27/2014 10:11 AM	ASCCAO Approval