



UNDERGRADUATE MAJOR IN SOCIAL DATA SCIENCE

SOCIAL DATA SCIENCE - GOVERNMENT & POLITICS & INTERNATIONAL RELATIONS

A MINIMUM GRADE OF C- MUST BE EARNED IN ALL BENCHMARKS, SDSC CORE COURSES, AND SDSC MAJOR ELECTIVES.

MATH REQUIREMENT

Must be completed within the first 30 credits after declaring the major

STAT100

Elementary Statistics and Probability

Pre-requisite: MATH110, MATH112, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility

MATH115 (OR HIGHER)

Precalculus

Pre-requisite: Must have math eligibility of MATH115 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH003 with appropriate eligibility. Or MATH113.

BENCHMARK I

Choose only 1 between INST126 and GEOG276

INST126

Intro to Programming

Pre-requisite: Math placement of STAT100 or higher
Equivalent courses approved by the iSchool may fulfill this requirement; please see an advisor

GEOG276

Principles of Python Programming and Geocomputing

BENCHMARK II

Must be completed within the first 60 credits after declaring the major

GVPT170

American Government

GVPT200

International Political Relations

GVPT201

Scope and Methods for Political Science Research

CORE COURSES

Choose only 1 between INST326, BSOS326, or GEOG376

BSOS233

Data Science for the Social Sciences

Pre-requisite: Minimum grade of C- in MATH115 or higher

INST327

Database Design and Modeling

Pre-requisite: Minimum grade of C- in INST126 or GEOG276

INST366

Privacy, Security, and Ethics for Big Data

Pre-requisite: Minimum grade of C- in INST126 or GEOG276; and minimum grade of C- in STAT100; and minimum grade of C- in one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, or SOCY100)

INST326

Object-Oriented Programming for Information Science

Pre-requisite: Minimum grade of C- in INST126 or GEOG276

BSOS326

Python Programming for the Social Sciences

Pre-requisite: Minimum grade of C- in MATH115 or higher

GEOG376

Introduction to Computer Programming

Pre-requisite: GEOG276 and GEOG373; Must have completed or be concurrently enrolled in MATH120, MATH130, or MATH140; or must have completed MATH220



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CORE COURSES CONTINUED

INST414

Advanced Data Science

Pre-requisite: Minimum grade of C- in MATH115 (or higher) and STAT100; and a minimum grade of C- from INST126 or GEOG276; and a minimum grade of C- from one of the following (INST201, INST301, or BSOS233); and a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, or SOCY100); and a minimum grade of C- from one of the following (ECON230, GEOG306, GVPT201, INST314, PSYC200, or SOCY201)

INST447

Data Sources and Manipulation

Pre-requisite: Minimum grade of C- in STAT100 and INST327; and a minimum grade of C- from one of the following (INST201, INST301, BSOS233); and a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, or SOCY100); and a minimum grade of C- from one of the following (ECON230, GEOG306, GVPT201, INST314, PSYC200, or SOCY201); and a minimum grade of C- from one of the following (BSOS331, GEOG273, or INST326)

INST462

Intro to Digital Visualization

Pre-requisite: Minimum grade of C- in STAT100; minimum grade of a C- from one of the following (INST201, INST301, or BSOS233); minimum grade of C- in INST126 or GEOG276; a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, or SOCY100); and a minimum grade of C- from one of the following (ECON230, GEOG306, GVPT201, INST314, PSYC100, or SOCY201)

SURV400

Fundamentals of Survey and Data Science

Pre-requisite: Minimum grade of C- in STAT100; or permission of BSOS-Joint Program in Survey Methodology department

SURV430

Fundamentals of Questionnaire

Requirement: Permission of BSOS-Joint Program in Survey Methodology department

INST492

Capstone

Pre-requisite: Minimum grades of C- or higher in all of the Core Courses

TRACK I COURSES

GVPT320

Advanced Empirical Research

Pre-requisite: GVPT201

TRACK II COURSES

Choose 6 credits in Track II