



UNDERGRADUATE MAJOR IN SOCIAL DATA SCIENCE

SDSC COURSE SEQUENCE REQUIREMENTS

A MINIMUM GRADE OF C- MUST BE EARNED IN ALL BENCHMARKS, SDSC CORE COURSES, SDSC TRACK COURSES, PREREQUISITES, AND WAIVED COURSES.

Students must declare a social science track

Benchmark I

Must be completed within the first 2 semesters after declaring the major

MATH COURSE

(Based on SDSC Track Requirement)

- **Tracks Requiring Math115:** African-American Studies, Anthropology, Government & Politics, Sociology
- **Tracks Requiring Math120:** Economics, Geographical Sciences, Public Health and Psychology
- * See Schedule of Classes on Testudo for prerequisite requirements

STAT100

Elementary Statistics and Probability One of the following:

- **Eligibility:** STAT100 or higher
- **Equivalent Course:** BMGT230 OR STAT400 (If completed with a C- or higher prior to joining SDSC)
- **Prerequisite:**
 - MATH110, MATH113, or MATH115

BSOS233

Data Science for the Social Sciences

- **Prerequisites:**
 - (MATH107 or higher) or STAT100

BENCHMARK II

Must be completed within the first 3 semesters after declaring the major
Must declare SDSC track by 60 credits or by completion of benchmark I, whichever comes first

3 credits depending on your chosen social science track.

1. _____

CORE COURSES

BSOS326

Python Programming for the Social Sciences

- **Prerequisites:**
 - One **Benchmark I Course:** BSOS233

INST327

Database Design and Modeling

- **Prerequisites:**
 - One **Benchmark I Course:** BSOS233

INST366

Privacy, Security, and Ethics for Big Data

- **Prerequisites:**
 - **Two Benchmark I Courses:** STAT100 and BSOS233
 - **One Benchmark II Course:** AASP101, ANTH210, ANTH222, ANTH240, ECON200, GEOG202, GVPT170, PSYC100, SPHL100 or SOCY100



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CORE COURSES CONTINUED

INST414

Advanced Data Science

– Prerequisites:

- **All Benchmark I Courses:** STAT100 and MATH115 or MATH120, and BSOS233
- **One Benchmark II Course:** AASP101, ANTH210, ANTH222, ANTH240, ECON200, GEOG202, GVPT170, PSYC100, SPHL100 or SOCY100
- **One Advanced Stats Course:** AASP210, ECON230, EPIB315, GEOG306, GVPT201, INST314, PSYC200, or SOCY201

INST447

Data Sources and Manipulation

– Prerequisites:

- **Two Benchmark I Courses:** STAT100 and BSOS233
- **One Benchmark II Course:** AASP101, ANTH210, ANTH222, ANTH240, ECON200, GEOG202, GVPT170, PSYC100, SPHL100 or SOCY100
- **One Advanced Stats Course:** AASP210, ECON230, EPIB315, GEOG306, GVPT201, INST314, PSYC200, or SOCY201
- BSOS326
- INST327

INST462

Intro to Digital Visualization

– Prerequisites:

- **Two Benchmark I Courses:** STAT100 and BSOS233
- **One Benchmark II Course:** AASP101, ANTH210, ANTH222, ANTH240, ECON200, GEOG202, GVPT170, PSYC100, SPHL100 or SOCY100

SURV400

Fundamentals of Survey and Data Science

– Prerequisites:

- STAT100 and Permission of BSOS-Joint Program in Survey Methodology Department
[Request permission to register from your SDSC advisor]

INST490

Integrative Capstone

– Prerequisites:

- STAT100, (MATH115 or MATH120), BSOS233, BSOS326, INST327, INST366, INST414, INST447, INST462, SURV400 [Request permission to register from your SDSC advisor]

TRACK I COURSES

6-9 credits depending on your chosen Social Science Track

1. _____ 2. _____ 3. _____

TRACK II COURSES

6-9 credits depending on your chosen Social Science Track

1. _____ 2. _____ 3. _____