UNDERGRADUATE MAJOR IN SOCIAL DATA SCIENCE

SOCIAL DATA SCIENCE - ANTHROPOLOGY

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: Stat 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*

INST314
Statistics for Information Science
Pre-requisite: Minimum grade of C- in INST126 or GEOG276; and minimum grade of C- in STAT100, and MATH115 (or higher)

*Choose only 1 between ANTH210, ANTH220, and ANTH240*

ANTH210
Introduction to Medical Anthropology and Global Health

ANTH220
Introduction to Biological Anthropology

ANTH240
Introduction to Archaeology

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)

*Choose only 1 between INST326, BSOS326, or GEOG376*

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
COURSE SEQUENCE REQUIREMENTS

TRACK I COURSES

**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 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, PSYC200, 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

CORE COURSES CONTINUED

*Choose 3 credits in Track I*

**ANTH310**
*Method and Theory in Medical Anthropology and Global Health*
Pre-requisite: ANTH210

**ANTH322**
*Method and Theory in Ecological Anthropology*
Pre-requisite: ANTH220 or ANTH222

**ANTH430**
*Method and Theory in Archaeology*

TRACK II COURSES

*Choose 9 credits from one group in Track II*

**ANTH310**
*Method and Theory in Medical Anthropology and Global Health*
Pre-requisite: ANTH210

**ANTH322**
*Method and Theory in Ecological Anthropology*
Pre-requisite: ANTH220 or ANTH222

**ANTH430**
*Method and Theory in Archaeology*