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*

AASP101
Public Policy and the Black Community

AASP210
Intro to Research Design and Analysis in African American Studies

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)

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 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

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**CORE COURSES CONTINUED**

**TRACK II COURSES**

**AASP395 Fundamentals of Quantitative Research in Socio-Cultural Perspectives**

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*Choose 9 credits in Track II*