

## Social Science Analytics Certificate

### Requirements:

#### A. Intro to Data & the Social Sciences, 3 s.h.

Complete the following:

\_\_POLI:1050 Big Ideas: Intro to Info & Society

#### B. Science Res. Design & Data Analysis 3 s.h.

Choose **one** of the following:

\_\_POLI:2000 Designing Political Research

\_\_SOC:2170 Research Methods

#### C. Core Statistics, 6-8 s.h.

**Two** of the following: not both STAT:1020 and SOC:1260

\_\_POLI:3000 Analyzing Political Data

\_\_SOC:2160 Applied Statistics for Social Scientists.

\_\_STAT:1020 Elementary Statistics and Inference

\_\_STAT:3120 Probability and Statistics

\_\_STAT:3200 Applied Linear Regression

\_\_STAT:4143 Introduction to Statistical Methods

\_\_STAT:6513 Intermediate Statistical Methods

#### D. Applied Research Experience, 3 s.h.

At least 3 s.h. from the following:

\_\_GEOG:4030 Senior Project Seminar.

\_\_GHS:3010 Identifying & Dev Global Health Proj

\_\_POLI:3001 Hawkeye Poll

\_\_POLI:3127 Legislative Policy Seminar

\_\_POLI:4600 Honors Research Project

\_\_POLI:4701 Undergraduate Research Tutorial

\_\_POLI:4702 Senior Research Project/Paper

\_\_SOC:3170 Applied Research

\_\_SOC:4998 Honors Research

\_\_STAT:6220 Statistical Consulting

#### E. Building Skills and Data Science, 3 s.h.

One of the following:

\_\_CS:1210 Computer Science I: Fundamentals.

\_\_CS:2110 Programming for Informatics

\_\_CS:2520 Human-Computer Interaction

\_\_CS:3980 Topics in Computer Science I

\_\_ECON:4800 Econometrics Analysis

\_\_GEOG:1050 Foundations of GIS

\_\_GEOG:1065 Intro to Spatial Anal.: Patterns & Proc.

\_\_GEOG:3540 Intro to Geographic Visualization

\_\_GEOG:4150 Health & Environment: GIS App.

\_\_GEOG:4580 Introduction to Geographic Databases

\_\_POLI:3050 Problems in Methods,

\_\_SOC:3880 The Sociology of Networks

\_\_SOC:4000 Data Science for Social Good

\_\_STAT:4520 Bayesian Statistics

\_\_STAT:4540 Statistical Learning

\_\_STAT:4580 Data Visualization & Data Technologies

\_\_STAT:6510 Applied Generalized Regression

\_\_STAT:6560 Applied Time Series Analysis.

**Total Hours Required for the Social Science Analytics Certificate:**

**18 s.h.**