2019 - 2020 Certificate Map
Social Science Research Methods

School/College: The College of Liberal Arts and Sciences
Location: Tempe campus

Program Requirements

Students must complete 18 credit hours. A minimum of a "C" grade (2.00 on a 4.00 scale) is required.

Required Course -- 3 credit hours

STP 452: Multivariate Statistics or an equivalent course approved by academic advisor (3)

Electives (Choose four) -- 12 credit hours

AML 441: Mathematical Concepts and Tools in Sustainability (3)
FAS 361 / SOC 391: Research Methods (L or SB) (3)
FAS 460 / SOC 460: Leadership, Research, and Collaboration in Community Change (3)
GCU 373: Introduction to Geographic Information Science (SG) (4)
GCU 442: Geographical Analysis of Transportation (SB) (3)
GCU 496: Geographic Research Methods (L) (3)
GIS 311: Geographic Information Science III (CS) (4)
GIS 322: Programming Principles in GIS II (3)
GIS 341: Introduction to Cartography and Georepresentation (CS) (3)
GIS 351: Air Photo Interpretation (3)
GIS 431: Spatial Databases (3)
GIS 441: Geographics: Interactive and Animated Cartography and Geovisualization (CS) (3)
GIS 461 / PUP 481: Optimization Fundamentals for Spatial Analysis (CS) (3)
GIS 462: Location Analysis and Modeling (3)
GIS 470: Advanced Statistics for Geography and Planning (CS) (3)
GIS 471: Spatial Statistics for Geography and Planning (3)
GIS 472: Spatial Regression Analysis (3)
POS 301 / SGS 305: Empirical Political Inquiry (SB) (3)
POS 401 / SGS 401: Political Statistics (CS) (3)
PUP 424: Planning Methods (4)
SOC 389 / SBS 389 / ASB 389: Ethnographic Field Lab (1-6)
STP 310: Design and Analysis of Experiments (3)
STP 311: Regression and Time Series Analyses (3)
STP 315: Statistical Computing (3)
STP 420: Introductory Applied Statistics (CS) (3)
STP 429: Experimental Statistics (CS) (3)
STP 450: Nonparametric Statistics (3)
STP 460: Categorical Data Analysis (3)

**Required Capstone Course -- 3 credit hours**

**ASB 499: Individualized Instruction** or an equivalent capstone course approved by academic advisor (3)

Depending on a student's undergraduate program of study, prerequisite courses may be needed in order to complete the requirements of this certificate.