



# QUANTITATIVE RESEARCH ANALYTICS IN THE SOCIAL SCIENCES | CERTIFICATE

8 classes required from the six component areas below

<p>Probability and Introductory Statistics <i>choose one</i></p>	<p><b>*ANTH 5230</b>   Introduction to Statistical Thinking in Anthropology</p> <p><b>*ECON 3640</b>   Probability and Statistical Inference for Economists</p> <p><b>FCS 3210</b>   Statistics in Family and Consumer Studies</p> <p><b>*GEOG 3020</b>   Geographical Analysis</p> <p><b>*POLS 5001</b>   Quantitative Analysis in Political Science</p> <p><b>*PSY 3000</b>   Statistical Methods in Psychology</p> <p><b>SOC 3112</b>   Social Statistics</p> <p><b>*SOC 5120</b>   Statistics I</p>	<p>Implementing Statistical Analyses <i>choose one</i></p>	<p><b>*COMP 1010</b>   Programming for All 1: Beginning Programming</p> <p><b>*ECON 4650</b>   Principles of Econometrics</p> <p><b>ENV 1100</b>   Our Digital World</p> <p><b>*GEOG 3180</b>   Introduction to Geo-Programming</p> <p><b>GEOG 3050</b>   Problem Solving in Physical Geography</p> <p><b>GEOG 5680</b>   Introduction to R Programming</p> <p><b>*STAT 5003</b>   Survey of Statistical Computer Packages</p>
<p>Research Methodology <i>choose two</i></p>	<p><b>ANTH 5169</b>   Ethnographic Methods</p> <p><b>*CMP 4010</b>   Field Studies in Urban Ecology I</p> <p><b>ENV 3030</b>   Introduction to Qualitative Methods</p>	<p><b>*FCS 3200</b>   Research Methods in Family and Consumer Studies</p> <p><b>FCS 5700</b>   Analyzing Community Growth: An Evidence-based Approach</p> <p><b>*GEOG 3100</b>   Introduction to Geographic Information Systems and Science</p>	<p><b>GEOG 3170</b>   Geospatial Field Methods: GPS and Drones</p> <p><b>*GEOG 4150</b>   Geospatial Big Data</p> <p><b>POLS 3001</b>   Political Analysis</p> <p><b>*PSY 3010</b>   Research Methods in Psychology</p> <p><b>SOC 3111</b>   Research Methods</p> <p><b>SOC 3673</b>   Social Epidemiology</p>
<p>Additional Expertise <i>choose two</i></p>	<p><b>*ANTH 5221</b>   Human Evolutionary Genetics</p> <p><b>*ANTH 5234</b>   Population Issues in Anthropology</p> <p><b>*ANTH 5471</b>   Quantitative Models in Evolutionary Ecology</p> <p><b>ANTH 5850</b>   Quantitative Analysis of Archaeological Data</p>	<p><b>*COMP 5360</b>   Introduction to Data Science</p> <p><b>*ECON 4650</b>   Principles of Econometrics</p> <p><b>*ECON 4660</b>   Statistical Tools for Applied Economics Research</p> <p><b>*ECON 4670</b>   Economics Research in the Community</p>	<p><b>*GEOG 4140</b>   Advanced Methods in GIS</p> <p><b>*GEOG 4150</b>   Geospatial Big Data</p> <p><b>*GEOG 4165</b>   Data Visualization</p> <p><b>*GEOG 5160</b>   Spatial Data Science in Practice</p> <p><b>*MATH 4100</b>   Introduction to Date Science</p> <p><b>SOC 3650</b>   Population and Society</p>
<p>Communication <i>choose one</i></p>	<p><b>*HONOR 3200</b>   Writing in a Research University</p> <p><b>*PSY 3010</b>   Research Methods in Psychology</p> <p><b>*WRTG 3012</b>   Writing in the Social Sciences</p> <p><b>*WRTG 3014</b>   Writing in the Sciences</p> <p><b>*WRTG 3015</b>   Professional Writing</p>	<p>Capstone Experience <i>one course</i></p> <p>See certificate advisor for recommendations</p>	

**For more information or to declare, contact:**

**PROGRAM DIRECTOR**  
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**Certificate Policies** | 9 credits must be completed outside of the primary major. All courses must be completed with a C– or higher and a GPA of 2.8. **You must still meet the grade requirement for your primary major for a course to apply in the major.**