GEOSPATIAL DATA SCIENCE, CERTIFICATE

REQUIREMENTS

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The Geospatial Data Science Certificate requires a minimum of 17 credits.

Code	Title	Credits
Introductory Statistics		**3-4**
Complete one course from the following:		
STAT 240	Data Science Modeling I [1]	
STAT 301	Introduction to Statistical Methods	
STAT 324	Introduction to Statistics for Science and Engineering	
STAT 371	Introductory Applied Statistics for the Life Sciences	
B M E 325	Applied Statistics for Biomedical Engineers	
ECON 310	Statistics: Measurement in Economics	
I SY E 210	Introduction to Industrial Statistics	
Core in GIScience		**8**
Complete two courses from the following:		
GEOG 370	Introduction to Cartography	
GEOG/ CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
GEOG 378	Introduction to Geocomputing	
Core in Data Science		**3-4**
Complete one course from the following:		
COMP SCI 220	Data Science Programming I	
COMP SCI 320	Data Science Programming II	
E C E 204	Data Science & Engineering	
STAT 240	Data Science Modeling I [1]	
Elective		**3-4**
Complete one course from the following:		
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	
GEOG 379	Geospatial Technologies: Drones, Sensors, and Applications	
GEOG 560	Advanced Quantitative Methods	
GEOG 572	Graphic Design in Cartography	
GEOG 573	Advanced Geocomputing and Geospatial Big Data Analytics	
GEOG 574	Geospatial Database Design and Development	
GEOG 575	Interactive Cartography & Geovisualization	
GEOG 579	GIS and Spatial Analysis	
Total Credits		**17**

RESIDENCE AND QUALITY OF WORK

- At least 9 certificate credits must be completed in residence.
- Minimum 2.000 GPA on all certificate courses.

FOOTNOTES

[1] STAT 240 may satisfy both the Introductory Statistics and Core in Data Science requirements. Credit for the course will only count once toward the minimum needed to complete the certificate. Students must complete additional Elective courses to reach the minimum total credit required.

CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.