

# Graduate Level GIS Certificate

## SUMMARY

Geographic information science (GIS) involves the theory and methodology behind capturing, storing, analyzing and communicating digital information about the Earth and phenomena distributed on or near its surface. From its initial home in the discipline in geography, GIS has diffused to many fields concerned with geographic phenomena. Career opportunities in GIS continue to expand both locally and nationally.

Category	Course Prefix & Number	Title	Credit Hours
Required	GEOG 6100	Introduction to GIS and Cartography	5
	GEOG 6140	Advanced Methods in GIS	4
	GEOG 6150	Geospatial Big Data	4
	GEOG 5170	Geospatial Field Methods: GPS and Drones	3
	GEOG 6180	Geoprocessing with Python	3
	GEOG 6161	Capstone in GIS	3
	<b>Subtotal</b>		<b>22</b>
Electives (pick 1)	CMP 6450	Geographic Information Systems in Planning	3
	CMP 6455	Advanced GIS Applications	3
	GEOG 6160	Spatial Modeling and Geocomputation	4
	GEOG 6162	Project Management	3
	GEOG 6165	Geovisualization	3
	GEOG 6190	GIS Environmental & Public Health	3
	<b>Subtotal</b>		<b>3</b>
	<b>Certificate Total</b>		<b>25-26</b>

It is the responsibility of the student to submit an Application for Certificate Completion form for any and all certificates pursued through the Geography Department during the student's last semester before graduation (or during the last semester of coursework to complete the certificate for non-matriculated students or students who have already graduated). The Certificate Completion form can be picked up in the Geography Main Office or from the Geography Advisor and must be submitted to the Geography Advisor before grades are posted.

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