

**DIVISION**

Science

**DIVISION DEAN**

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Chemistry 113

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**DIVISION OFFICE**

Chemistry 121

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### GEOGRAPHIC INFORMATION SYSTEMS CERTIFICATE

This certificate is designed to prepare students for entry-level employment in Geographic Information Systems (GIS) and automated mapping technology, utilizing earth resources data satellites, aerial photography and computerized data banks of spatial data.

**REQUIRED COURSES****UNITS**

GIS 130	Introduction to Geographic Information System (GIS)	3
GIS 131	GIS Applications	3
GIS 133	GIS Cartography and Base Map Development	3
GIS 135	Spatial Analysis with GIS	3
GIS 136	GIS for Science, Government and Business	3
or		
GIS 137	Advanced GIS Applications	(3)
GIS 139	Global Positioning Systems (GPS) Field Techniques	1
GIS 150	GIS Internship	(1)
<b>TOTAL UNITS</b>		<b>16</b>

