

# CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS, BS

## LEARNING OUTCOMES

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1. Apply cartographic design principles and visual storytelling to transform geospatial data into actionable insights.
2. Apply appropriate technologies and methods, including geographic information systems (GIS) and informed geodatabase design, to analyze qualitative and quantitative geospatial data.
3. Use appropriate geographic concepts, methods, and technologies to interpret the dynamic interactions among human and natural characteristics of place and space.
4. Combine geospatial theories, methodologies, and project management strategies to design and conduct ethical cartographic and geographic research and development.
5. Utilize appropriate GIS-based spatial decision tools to inform discussions of social, economic, and environmental issues that confront policymakers and citizens.
6. Discuss complex geospatial data, concepts, and technologies using written, oral, and visual forms of communication appropriate for technical, non-technical, and community-based audiences.