

GEOG 428. EARTH SYSTEM GEOGRAPHIC INFORMATION SCIENCE.

Credits: 3

Offered by: Geography (Faculty of Science)

Terms offered: Winter 2026

[View offerings for Winter 2026 in Visual Schedule Builder.](#)

Description

Foundational concepts, methods and techniques in Geographic Information Science (GIS) to manage, process, interpret, understand, and analyze digital geospatial land surface data for a variety of Earth system applications, with a special focus on global hydrology. Emphasis will be placed on recognizing issues of resolution, scale, data accuracy and uncertainties.

- Prerequisite (s): GEOG 201; and one of the following: GEOG 308, GEOG 314; or permission of the instructor
- Restriction(s): Not open to students who have taken or are taking ENVB 529 or BREE 529

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