

CAL POLY HUMBOLDT
University Senate
Resolution to Recommend Approval of the Geographic Information Science (GIS) Certificate of Study

06-25/26-ICC – October 28, 2025 – Curriculum Reading

RESOLVED: That the University Senate of Cal Poly Humboldt recommends to the Provost that the Geographic Information Science Certificate of Study (9 units), detailed in proposal [24-2938](#), be approved.

RATIONALE:

The Geographic Information Science (GIS) Certificate of Study develops advanced proficiency in spatial analysis, modeling, and geovisualization. Designed as a stackable credential following the Geospatial Basic Certificate, Geospatial Analysis Minor, or equivalent preparation, it provides students with applied expertise in geospatial analytics and decision-support systems.

Courses (9 units):

- Required (6): GSP 370 – Intermediate GIS (3); GSP 470 or 570 – Advanced Geospatial Modeling and Analysis (3)
- Elective (3): One from approved advanced topics such as Mobile Mapping, Landscape Fire Modeling, or Spatial Ecology.

Restrictions:

- With the GST major or Geospatial Analysis Minor, only one course (3–4 units) may overlap.

Learning Outcomes:

- Apply advanced GIS techniques for spatial modeling and analysis.
 - Interpret and visualize complex spatial data to inform environmental and planning decisions.
- Produce professional reports and maps that communicate technical findings effectively.

This certificate builds on the foundational competencies of the Geospatial Basic Certificate and contributes to a coordinated, stackable structure in geospatial education aligned with the CSU's polytechnic and workforce initiatives.

Related Proposals:

- [Geospatial Basic Certificate of Study \(9 units\)](#) – 24-2891
- [Remote Sensing Certificate of Study \(9 units\)](#) – 24-2939
- [Cartography Certificate of Study \(9 units\)](#) – 24-2931