

# Courses

## Foundations (6 credits)

### DS 420/520: Foundations of Geospatial Thinking (3)

Explore fundamental concepts in geospatial science, including spatial reasoning, data structures, and geographic information systems (GIS). Develop skills to analyze and interpret geospatial data across diverse fields.

### DS 421/521: Cartographic Design (3)

Learn the principles of effective map design, emphasizing aesthetics, accuracy, and usability. Create professional-quality maps using cartographic techniques to communicate complex spatial information.

### Core Courses (6 credits from the following)

#### DS 422/522: Geocomputation (3)

Delve into advanced computational methods for solving geospatial problems. Topics include geospatial programming, automation, and the use of algorithms to process spatial data.

#### DS 434/534: Spatial Analysis, Statistics & Modeling (3)

Understand and apply statistical techniques and spatial models to real-world problems. Gain proficiency in tools and methods for analyzing spatial relationships and patterns.

#### DS 430/530: Digital Earth Image Processing & Analysis (3)

Study the fundamentals of remote sensing and digital imagery. Learn to process, interpret, and analyze Earth observation data for environmental and urban applications.

#### DS 431/531: Remote Sensing & Machine Learning (3)

Explore the integration of remote sensing technologies with machine learning algorithms. Analyze large-scale geospatial datasets to extract actionable insights.

#### DS 480: Special Topics (3)

Examine emerging trends and specialized topics in geospatial science. Content varies and may include cutting-edge tools, techniques, or applications.

### Applied Capstone (3 credits)

#### DS 492/592: Capstone in Geospatial Intelligence (3)

Apply your geospatial knowledge in a real-world project. Develop innovative solutions to geospatial challenges, demonstrating mastery of analytical, technical, and design skills.

Partners: **PACIFIC INTELLIGENCE  
INNOVATION  
INITIATIVE**



**Chaminade  
University**  
OF HONOLULU

## Contact us

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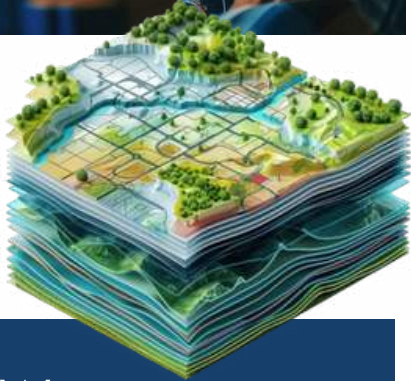
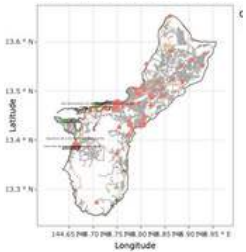
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**CERTIFICATE  
IN  
GEOSPATIAL  
INTELLIGENCE  
SYSTEMS**

MAPPING THE FUTURE,  
CHARTING YOUR PATH

*Program details are subject to change*



# Curriculum

Students, working professionals +/- degrees

Foundations (6 credits)

**DS 420/520**  
Foundations of  
Geospatial Thinking (3)

**DS 421/521**  
Cartographic Design (3)

Core Courses (6 credits from the following)

**DS 422/522**  
Geocomputation (3)  
**DS 434/534**  
Spatial Analysis,  
Statistics & Modeling (3)

**DS 430/530**  
Digital Earth Image  
Processing & Analysis (3)  
**DS 431/531**  
Remote Sensing &  
Machine Learning (3)

**DS 480** Special Topics (3)

Applied Capstone (3 credits)

**DS 492/592**  
Capstone in Geospatial Intelligence (3)

## Overview

Chaminade is proud to offer a 15 credit **Certificate in Geospatial Intelligence Systems**. The **personalized curriculum** welcomes participants ranging from students to working professionals.

**Real-world use cases** drawn from defense and national security challenges, climate science, public health and more inspire active learning. The program centers on **the Indo-Pacific region** and integrates **professional networking and portfolio development** to ready you for cutting-edge jobs. We draw **faculty and Subject Matter Experts** from industry, agencies and academia to support your journey as a **'GIS thinker'** ready to address challenging and complex problems.



## Highlights

- 100% online, one year program
- Undergraduate and post-baccalaureate/working professional enrollment options
- Accelerated options/course credit available based on your prior work experience or course work in GIS
- Expert academic faculty, industry and agency Subject Matter Experts and mentors supercharge your learning and career
- \$600 per credit (tuition assistance and discounts for eligible military students may be available)
- The new program will seek accreditation (e.g., from the US Geospatial Intelligence Foundation) when eligible

"GIS is not just a tool - it's the language of the future. The field is hungry for innovative thinkers who can harness its power to solve complex problems and shape a more connected, secure and sustainable world. This program forges the GIS thinkers and future professionals we need."



**Ada Warren**  
**Senior Curriculum Advisor**

*International Program Manager, Masego, Inc.  
Formerly Lead GEOINT Analyst  
National Geospatial Intelligence Agency*



## Ready to learn more?

Complete our *Expression of Interest Form* by [clicking here](#) or scanning the QR code below and we will schedule a meeting to discuss your goals and the enrollment process.

