

## Certificate

# Spatial Analysis of Coastal Environments Certificate

The certificate in spatial analysis of coastal environments provides an interdisciplinary program for students wishing to pursue careers in coastal management or research, remote sensing, or geographic information systems (GIS) applications. Rendered upon completion of the requirements, the certificate is an academic affidavit comprised of courses in geography and ocean, earth and atmospheric sciences and is administered by the two departments. Students must take courses in the areas listed below and complete them with a cumulative GPA of 3.00 or higher and no grade below a C (2.00). Students must complete a minimum of six hours in upper-level courses required for the certificate through courses offered by Old Dominion University.

The certificate is available to postgraduate professionals who meet the requirements. Students with comparable professional experience may be able to show competence in selected courses through examination.

Students seeking graduate certification should refer to the Graduate Catalog.

## Requirements

### Core Courses

GEOG 404	Digital Techniques for Remote Sensing	3
GEOG 462	Advanced Spatial Analysis	3

### Interpretive Analysis Courses

Select two of the following: 6

BIOL 404	Conservation Biology and Sustainable Development	
GEOG 420	Marine Geography	
GEOG 422W	Coastal Geography	
GEOG 490	Applied Cartography/GIS *	
GEOG 495	Topics in Geography *	
OEAS 306	Oceanography	
OEAS 344W	Geomorphology	
OEAS 495	Special Topics *	

### Capstone Seminar

GEOG 419	Spatial Analysis of Coastal Environments	3
or OEAS 419	Spatial Analysis of Coastal Environments	

**Total Credit Hours 15**

\* Advanced approval required