Discover How Geospatial Science & Technology Work in Society

- Anatomy of Maps
- Spatial Thinking
- Earth Observing Satellites
- Geographic Information Systems and GPS
- Location-Based Analysis
- ‘Know the Earth, Show the Way’

Contact: Dr. Tom Allen, E-mail Tallen@odu.edu, Dept. of Political Science & Geography
Introduction to GIS

Fall 2020
GEOG 402/502
Mondays or Tuesdays (4:20pm-7pm)

Contact: Dr. Jennifer Whytlaw – jwhytlaw@odu.edu

• Learn a new technical skill by using Esri’s ArcGIS Suite of software (ArcMap and ArcGIS Pro)
• Communicate geospatial analysis techniques
• Develop cartographic/visual products
• Explore good (and bad) map examples
• Develop a graphics portfolio that can be used for internships and employment applications
## GEOG 404/504:
Digital Techniques for Remote Sensing (RS)

**Online, Fall 2020**

**Instructor:** Dr. Hua Liu (hxliu@odu.edu)

<table>
<thead>
<tr>
<th>Topics</th>
<th>Requirements</th>
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<tr>
<td>Fundamentals of RS</td>
<td>Pre-requisite: Junior standing</td>
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<tr>
<td>RS image pre-processing</td>
<td>Core course for two certificates: <em>GIS</em> and <em>Spatial Analysis of Coastal Environments</em></td>
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<tr>
<td>RS image classification</td>
<td>Core course for geography major if not taking GEOG 418</td>
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<td>Software: ERDAS Imagine</td>
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<td>Regular interactions with the instructor</td>
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“Don't grow up too quickly, lest you forget how much you love the beach.”
-- Michelle Held

GEOG 422W/522 Fall 2020

Coastal Geography

Physical Geography and Coastal Geomorphology
Waves, Beaches, Barrier Islands
Estuaries and Marshes
Tropical Coasts and Mangroves
River Deltas, Floodplains, and Sea Level Rise
Coastal Hazards, Erosion, Hurricanes, and Nor’easters
Coastal Zone Policy, Planning & Management
Fisheries, Seafood and Sustainability

Department of Political Science & Geography
College of Arts & Letters

Contact: Dr. Tom Allen, ODU Political Science & Geography, e-mail: tallen@odu.edu
GEOG 496/596: GIS Programming

Monarch Hall 2114, Wednesday, 4:20-7:00 P.M.

Instructor: Dr. Hua Liu (hxliu@odu.edu)

- Fundamental knowledge of GIS programming
- Introduction to Python
- Introduction to JavaScript
- Creating script tools in GIS
- Building applications in web mapping

- Easy entrance to GIS programming
- Interactive learning environment
- Hands-on programming exercises
- Pre-requisite: GEOG 402/502 (GIS)
- Elective GIS certificate course