

Certificate

Geographic Information Science Certificate

The certificate in geographic information science (GISci) provides a program for students and professionals pursuing careers in geographic information systems (GIS) and related spatial technologies (remote sensing, global positioning systems, cartography, and spatial data handling and analysis). Awarded upon completion of the requirements, the certificate is an affidavit of academic proficiency and is administered by the Department of Political Science and Geography. 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 undergraduate students and non-degree seeking professionals who meet the requirements. Students with comparable professional experience may be able to satisfy competencies in selected courses through examination.

Requirements

Students must complete the following courses:

Core Courses

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| GEOG 300 | Maps and Geographic Information | 3 |
| GEOG 402 | Geographic Information Systems | 3 |
| GEOG 404 | Digital Techniques for Remote Sensing | 3 |

Developmental Courses

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| Select two of the following: | | 6 |
| GEOG 330 | Field Methods (Prior Approval Required) | |
| GEOG 368 | Internship in Geography (Prior Approval Required) | |
| GEOG 408 | Cartography | |
| GEOG 419 | Spatial Analysis of Coastal Environments | |
| GEOG 425 | Internet Geographic Information Systems | |
| GEOG 432 | Advanced GIS | |
| GEOG 463 | GIS Programming | |
| GEOG 473 | Geographic Information Systems for Emergency Management | |
| GEOG 490 | Applied Cartography/GIS | |
| GEOG 495 | Topics in Geography (Prior Approval Required) | |
| GEOG 497 | Independent Research in Geography (Prior Approval Required) | |

Total Credit Hours **15**