



Open Source GIS

This workshop focuses on introducing Open Source software for both desktop and internet GIS applications. Upon successful completion of this workshop, the student should be able to understand the concepts of Open Source software, and show competency using the leading desktop and web mapping Open Source software packages, e.g. Quantum GIS (QGIS), SpatiaLite, GRASS GIS, GDAL/OGR, Google mashup and web mapping software.

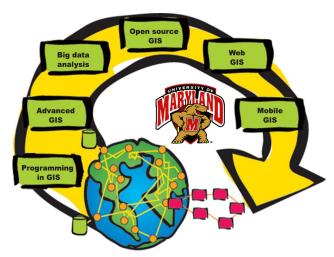
Mobile GIS



This workshop is designed as an introduction to mobile GIS, to the programming concepts underlying mobile GIS development, and more importantly, to the design and implement of a mobile GIS application. This workshop covers how to develop, test, and publish mobile GIS native apps working across two mobile platforms: Android and iOS. This workshop will also try to leverage the capabilities of Java, Swift, Google maps, ArcGIS Server and runtime SDK to developing and publishing mobile GIS apps.



SUMMER SCHOOL ON ADVANCES IN GIS



GIS is advancing, Are you keeping up?

Web GIS



This workshop is designed to study webbased GIS technologies, and to help students develop the knowledge and skills necessary to plan, design, develop and publish a web-based GIS solution. This workshop provides students with a comprehensive and up-to-date understanding of: 1) the concepts and theories of Web/Internet GIS and its impacts on GIS applications; 2) various technologies or techniques for creating, analyzing, and publishing GIS data and services via the Internet. Students will be equipped with the state-of-art technical skills and knowledge necessary to develop Web GIS applications and to manage Web GIS projects, and will be inspired with broad and real -world applications of Web GIS in various fields.

Workshop Descriptions

Detailed workshop contents, labs, and requirements are available at http://ter.ps/stgis.

Workshop Registration

Workshop registration is managed by the Office of Extended Studies at the University of Maryland, **visit** <u>http://ter.ps/stgis</u> for registration information.

Contact Us

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WORKSHOPS

- PROGRAMMING IN GIS OPEN SOURCE GIS
- ADVANCED GIS WEB GIS
- BIG DATA ANALYSIS MOBILE GIS

Website: <u>http://ter.ps/stgis</u>

Center for Geospatial Information Science

Department of Geographical Sciences

University of Maryland, College Park



Advance GIS solutions that work for your career and business

ON CAMPUS AT A TOP-THREE NRC-RANKED DEPARTMENT

Branded by the Department of Geographical Sciences at the University of Maryland



The workshop sequence at the UMD Center for Geospatial Information Science is designed to provide a comprehensive overview of current state-of-the-art technologies in geospatial information science (GIS), through intensive training over a short time frame. The workshops hosted by our ESRI Developer Center provide fundamental training in key aspects of GIS, alongside hands-on lab-based exercises across a diversity of devices, software libraries, exercises, and data environments that emphasize "learning by doing".

Tailored and scheduled for your needs

WORKSHOPS IN 2015	SCHEDULE (FRI, SAT, SUN)
Programming in GIS	Jun. 12 – Jun. 14
Advanced GIS	Jun. 19 – Jun. 21
Big data analysis	Jun. 26 – Jun. 28
Open source GIS	Jul. 10 – Jul. 12
Web GIS	Jul. 31 – Aug. 02
Mobile GIS	Aug. 07 – Aug. 09

Workshops

Each workshop module in the sequence is three days long, and is taught by faculty in the Department of Geographical Sciences and Center for Geospatial Information Science at the University of Maryland, with extensive experience in building and applying geographic information systems for use in research and commercial environments.

Cost

The cost of each workshop is \$1800 for three days of 8-hour training. The cost includes lab fee and materials. All required materials, hard-ware, software are provided on UMD's campus during workshops.

Customized workshops/courses are available upon request for group registration, contact us on details.

Facilities

to:

The students of Summer School have access

- UMD student ID and regular oncampus resources and services, such as library, shuttle bus, etc.
- A wide range of GIS, remote sensing, image processing, statistics, and datamining platforms
- State-of-the-art geovisualization facility and high-bandwidth access to cloud computing and virtualization technologies
- Advanced software products and development platforms, and 50 tablet devices for hands-on development of location-aware sensors on Android and iOS platforms
- **♦** ...

Programming in GIS



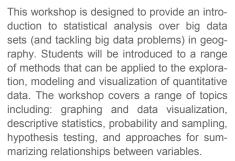
This workshop introduces conceptual and practical aspects of programming for geographic applications. Students in this workshop will develop a proficiency in applying basic programming principles to manipulating spatial data sources in a GIS environment. Students will be introduced to the ArcPy component of the ArcGIS software and develop a proficiency in developing custom applications for spatial data processing in the ArcPy environment using Python programming language.

Advanced GIS



Based on your understanding and knowledge of basic GIS, this workshop focuses on advanced GIS concepts, tools and operations including spatial analysis, geostatistical analysis, and geoprocessing. Students will also be introduced to a range of methods that can be applied to the exploration, modeling and visualization of quantitative data. This workshop will help you develop advanced theoretical and practical knowledge in spatial analysis and GIS modeling and the application this knowledge to solve real world problems.

Big data analysis in GIS





WHO SHOULD ATTEND?

Professionals and students who wish to pursue career in GIS, to keep pace with the advances of GIS, to get recharged based on basic GIS skills they have learned, and to specialize in areas of the offered topics.



