

B.S. GEOGRAPHICAL INFORMATION SYSTEMS

**Ask About Our
Available
Scholarships**

Landsat and SRTM View of the Lullfaiilaco Volcano
(Credit: NASA Visible Earth)

MAP YOUR FUTURE

The B.S. in Geographical Information Systems (GIS) provides graduates with the tools to understand how the Earth is changing in space and time to better understand our complex world. GIS tools and methods make use of spatial analysis, modeling, remote sensing imagery, mapping platforms such as Google Earth, and advanced visualizations such as Virtual Reality and immersive 3D environments. Through the GIS degree, you will explore the interconnections between humans and the environment and the spatial context of social, political, and economic landscapes. The GIS degree will enable you to use spatial technologies to inform environmental decisions, assess climate change solutions, and monitor natural disasters, among many more applications. Careers include working as a GIS analyst, cartographer, spatial modeler, community and urban planner, working for national intelligence agencies and the state department, working for international aid organizations, working for local, state, and federal land management agencies, working as a spatial epidemiologist, among many others.

RECOMMENDED 4-YEAR PLAN

FRESHMAN		FALL
COURSE		CREDITS
GEOG 100/GEOG 100L - Introduction to Planet Earth & Lab		4
ENGL 101 - College Writing & Rhetoric I		3
General Education Requirement		2
Elective		2
MATH 143 or MATH 160 or MATH 170 or MATH 175		3
		TOTAL 14

FRESHMAN		SPRING
COURSE		CREDITS
ENGL 102* - College Writing & Rhetoric (ENGL 101)	<i>Writ Comm</i>	3
GEOG 165 - Human Geography		3
GEOG 200 - World Culture and Globalization		3
STAT 251 - Statistical Methods		3
General Education Requirement		3
		TOTAL 15

SOPHOMORE		FALL
COURSE		CREDITS
ENGL 313 or ENGL 317		3
General Education Requirement		3
General Education Requirement		4
General Education Requirement		3
GEOG Elective		3
		TOTAL 16

SOPHOMORE		SPRING/ SUMMER
COURSE		CREDITS
GEOG 385 - Foundations of GIS		3
CS 212 - Practical Python		3
GIS Elective Course		3
Remote Sensing Elective Course		3
GEOG 320 OR GEOG 330 OR GEOG 345 OR GEOG 350 OR GEOG 360 OR GEOG 365		3
		TOTAL 15

This academic plan is intended as a guideline only and does not replace academic advising. 120 credits minimum are required for a B.S. in Geographical Information Systems. Minimum of 36 upper-division credits required to graduate. See course catalog and department website for complete degree requirements and additional information.

JUNIOR		FALL
COURSE		CREDITS
GEOG 390 - Cartographic Design & Geovisualization		3
GIS Elective Course		3
Elective		3
Elective		3
GEOG 301 OR GEOG 317 OR GEOG 401 OR GEOG 410 OR GEOG 430		3

TOTAL 15

SENIOR		FALL
COURSE		CREDITS
GEOG 493 - Senior Capstone in Geography		3
Geography Elective		3
GIS Elective		3
GEOG 479 - GIS Programming		3
Elective		3

TOTAL 15

GIS Electives (choose 9+ cr)

COURSE	CREDITS
GEOG 407 Spatial Analysis and Modeling	3
GEOG 414 Socioeconomic Applications of GIS**	3
GEOG 424 Hydrologic Applications of GIS and Remote Sensing**	3
GEOG 483 Remote Sensing Image Analysis / GIS Integration**	3
REM 407 GIS Application in Fire Ecology and Management	3

JUNIOR		SPRING/ SUMMER
COURSE		CREDITS
American Diversity Course		3
Elective		3
Elective		3
Elective		3
GEOG 420 OR GEOG 435 OR GEOG 455 OR GEOG 488		3

TOTAL 18

SENIOR		SPRING
COURSE		CREDITS
Remote Sensing Elective		3
Data Analytics Elective		3
GEOG 475 Intermediate GIS		3
Elective		3
Elective		3

TOTAL 15

Remote Sensing Electives (choose 6+ cr)

COURSE	CREDITS
FOR 472 Remote Sensing of the Environment	3
GEOG 424 Hydrologic Applications of GIS and Remote Sensing**	3
GEOG 483 Remote Sensing Image Analysis / GIS Integration**	3
REM 475 Remote Sensing Applications with UAS	3
REM 476 Unmanned Aerial Systems (UAS) Operations	1

Data Analytics Electives (choose 3+ cr)

COURSE	CREDITS
STAT 431 Statistical Analysis	3
MIS 350 Managing Information	3
MIS 440 Data Visualization for Managerial Decision Making	3
MIS 453 Database Design	3

** This course can be taken to satisfy either track but only counts once.

READY TO GET STARTED?



For More Information: earth-sciencerocks@uidaho.edu

Departmental Contacts:
 Alistair Smith | alistair@uidaho.edu (208-885-1009)
 Renee Jensen-Hasfurther | renee@uidaho.edu (208-885-6216)

