

# GIScience & Technology

## Two-year Plan – Fall 2018 to Spring 2020

COURSE	UNDERGRADUATE	GRADUATE	DELIVERY	FALL 2018	SPRING 2019	FALL 2019	SPRING 2020
Foundations of Geospatial Data Analysis*	GEOS 3013	GEOS 5043	online	Cothren	Cothren	Cothren	Cothren
Introduction to Cartography	GEOS 3023		campus	Paradise		Paradise	
Geospatial Technologies Computational Toolkit*	GEOS 3103	GEOS 5073	online	Tullis	Tullis	Tullis	Tullis
Geospatial Applications and Information Science*	GEOS/ANTH 3543	GEOS 5543	online	Limp	Limp	Tullis	Tullis
Spatial Analysis Using ArcGIS*	GEOS 3553	GEOS 5553	online	Limp	Limp	Aly	Aly
Geospatial Data Mining*	GEOS 3563	GEOS 5083	online	Cothren	Cothren	Cothren	Cothren
Introduction to Geodatabases*	GEOS 3593	GEOS 5593	online	Limp	Limp	Aly	Aly
GIS for Environmental Science	ENSC 3603		campus		Skinner		
Radar Remote Sensing	GEOS 4133	GEOS 5133	campus				Aly
Internship in GIS & Cartography	GEOS 440V	GEOS 550V	campus	x	x	x	x
Principles of Remote Sensing (Approved at 3000-level for Fall 2019)	GEOS 3213/4413	GEOS 5213	campus	Tullis		Tullis	
Introduction to Raster GIS	GEOS/ANTH 4553	GEOS 5453/ANTH 5553	campus	Kvamme		Kvamme	
Introduction to Global Positioning Systems and Global Navigation Satellite Systems	GEOS/ANTH 4593	GEOS 5293/ANTH 5593	campus	Limp			
Geospatial Unmanned Aircraft Systems	GEOS 4793/4793H	GEOS 5793	campus	Tullis		Tullis	
Operations Management of Unmanned Aircraft Systems		OMGT 5903	campus		Ham		Ham
Cartographic Design and Production	GEOS 4523	GEOS 5523	campus		Paradise		Paradise
Enterprise and Multiuser GIS (New in Spring 2020)	GEOS 4583	GEOS 5583	campus				Tullis
GIS Analysis and Modeling	GEOS/ANTH 4653	GEOS/ANTH 5653/ ENDY 5043	campus		Aly		
Quantitative Techniques in Geosciences/Quantitative Anthropology	GEOS/ANTH 4863	GEOS/ANTH 5863	campus		Kvamme		Cothren
Remote Sensing of Natural Resources		GEOS 5423	campus				Tullis
Seminar in Geoinformatics		GEOS 5973	campus		Tullis		Aly

The **Geography Division of Geosciences** is pleased to offer 11 on campus and 6 online courses in **geographic information science (GIS, GIScience, or geospatial science)** and **technology**. Other departments offer an additional 4 on campus courses, making a total of 21 courses available to geography and other students pursuing opportunities in GIScience and technology.

Campus geospatial courses are typically offered in one of the **Center for Advanced Spatial Technologies (CAST)** laboratories in the JB Hunt Center for Academic Excellence. The **online\*** courses support an undergraduate **Certificate of Proficiency in Geospatial Technologies** as well as a **Graduate Certificate in Geospatial Technologies** (see <https://online.uark.edu>). For questions about these courses, the online certificates, or various degree options that emphasize geospatial studies (e.g., Geography, Earth Science, Geosciences, Environmental Dynamics, Space and Planetary Sciences, etc.), please talk with a member of the **GIScience & Technology Group** at University of Arkansas:

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