Milwaukee Rochester **GEO157**: Buffalo Lake Albany Introduction to Geographic New York Information Science Pittsburgn DC 2 Madelphia OHIO Andy Ridgwell Cincinnal Washington Viio MESSOURI Louisville IR GINLA **REALFUCKY** Richmond Norfolk N as hville Raleigh Greenville RKAN Birmingham Atlanta ORGIA DC7 DC 5 Jacksonville Orleans

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GEO157: aims

"This course will introduce you to the fundamentals of Geographical Information Systems, the Science behind them, and their practical applications. We will review and analyze geographic information systems, data structures, databases, and coordinate systems. The lectures emphasizes the concepts and design of GIS and the labs will give you hands-on training with a commonly used GIS software package: ArcGIS. The goal of the course is to provide you with a good base of GIS knowledge so that you will realize the potential of GIS and hopefully use it in your own research in the future. This course, more so than any other course offered at UCR, will give you the necessary skills to pursue a career as a GIS Analyst, which is a high demand position across a variety of fields."

As a result ... GEO157 has a focus on practical skills gained in computer lab work (and guided projects), and at the expense of 'theory' and lectures.

Jacksonville

GEO157: back-story/caveats

Regarded as highly successful. Noted for the quality of the student GIS projects produced (<u>don't fail me!</u>).

Buffalo

Jacksonville

Rochester

Essentially unchanged from previously for 2017/18. Run in Spring 2016 (and before) on an all day(!) Friday schedule basis, where UCR/Federal holidays led to a more compared (<10 week) format.

We adopt this format here for consistency.

Birmingham

=> this first week has only a limited Monday (today!) session, and the lab proper starts on the Friday of the 2nd week (but we'll still have a GIS-related exercise this Friday).

Greenville

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	Monday am (1)	Monday am (2)	M <mark>onday</mark>	Friday am	Friday	roch
WEEK	Lecture A 09:10-10:30 Sproul 2225	Lecture B 10:40-12:00 Sproul 2225	Office Hours: 12-2 pm	LAB 09:10-12:00 Sproul 2225	Exrta lab hours: 12-2 pm	YOI
	ourse introduction			fake 'fieldwork' fun		11
2nd / log	ourse introduction and jistics. Laptop software stallation.			Paper-based and web-based GIS-like problems.		
Le	ecture 1, Discussion	Lecture 2		Lab 1		100
9th / 13th	hapter 1: What is GIS?	Chapter 2: Spatial data		Digitizing		2
April	and the second second	Problem Set 1 (Ch. 1)		A 10/17		nd
W	orked problems	Lecture 3		Lab 2		2
(#3) — 16th / 20th		Chapter 3: Spatial data modelling		GPS, Georeferencing, and Geocoding		gh
April Pro	oblem Set 1 due	Problem Set 2 (Ch. 2+3)		Lab 1 due		247
W	orked problems	Lecture 4		Lab 3		
(#4)	4470	Chapter 4: Database management		Interpolating weather		
April Pro	oblem Set 2 due	ALADAMA		Lab 2 due		
	orked problems	Lecture 5		Lab 4		
(#5) 30th / 4th		Chapter 5: Data input and editing		Vector analysis using earthquake data		
May or	al presentations set	Problem Set 3 (Ch. 4+5)		Lab 3 due		

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	Midterm Exam	Lecture 6	Lab 5	
(#6) 7th / 11th May	(Covers Lectures 1-5)	Chapter 6: Data analysis	Raster analysis using vegetation data	GEO157 Albany Bos
Ividy	Problem Set 3 due	Problem Set 4 (Ch. 6)	Lab 4 due	Provi
(#7)	Worked problems	Lecture 7	(LAB)	No Participantes
(#7) 14th / 18th May		Chapter 7: Analytical modelling in GIS	Oral Presentation work	DC 2
Iviay	Problem Set 4 due	Problem Set 5 (Ch. 7)	Lab 5 due	Ehiladelphia
(#0)	Oral Presentations	Oral Presentations	(LAB)	Washington
(#8) 21st / 25th May	MISSOURI		PROJECT WORK	877
Iviay	Problem Set 5 due	1911/0200	Projects set	Norfolk
(#9) 28th / 1st June	Memorial Day Project Part 1 due	Memorial Day	(LAB) PROJECT WORK	an sha
(#4.0)	Final Project Presentations	Final Project Presentations	(LAB)	
(#10) 4th / 8th June			PROJECT WORK	
	Project Part 2 due		P	
<i>finals</i> 4th / 8th June	Finals Week Final Project due in @ 9.00 am	Finals Week	Finals Week Image: State of the state	

GEO157: course details

DC 5

TA: Konstantin Choumiline <konstantin.choumiline@email.ucr.edu> me: Andy Ridgwell <andy@seao2.org>

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Birmin





DC 2 Chiladelphia Washington



KONSTANTIN CHOUMILINE

Ph.D. Candidate, Department of Earth Sciences, University o California Riverside

News

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Academic Background Ongoing Research Publications and Events Skills and Techniques Field Work Photos Other Photos Contact Info

Download Curriculum Vitae View ResearchGate Profile

Academic Background

Department of Earth Sciences, University of California Riverside

Prof. Timothy Lyons Biogeochemistry Group (NASA Astrobiology Institute)



Teducation

Buffalo

Doctoral Degree in Geological Sciences (currently pursuing) at University of California Riverside. Advisor: Timothy Lyons

Master's Degree with Honors in Marine Resource Management at Centro Interdisciplinario de Ciencias Marinas – Instituto Politécnico Nacional (La Paz, Baja California Sur, Mexico) with the thesis titled: "Geochemistry of settling particulate matter and recent sediments of Alfonso Basin, La Paz Bay", defended on 12/15/11 [PDF]

Bachelor's Degree in Geology at Universidad Autónoma de Baja California Sur (La Paz, Baja California Sur, Mexico) with the thesis titled: "Application of multivariate statistical methods in determining sediment contribution sources. Case study of La Paz Lagoon, B.C.S., Mexico", defended on 11/17/09 [PDF]

🟆 Awards

GEO157: course details

Based on a course text-book:

An Introduction to Geographical Information Systems

by: Ian Heywood, Sarah Cornelius, University of Aberdeen; Steve Carver, University of Leeds
This book is a <u>required text</u>. Find/obtain it:
(1) UCR bookstore (new or 2nd hand)
(2) Library ...

... it may be possible for me to obtain some copies to 'lend' -- if you cannot obtain a copy by thsi lunchtime – <u>contact me</u>.

 $DC_{2}5$

Birmingham

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An Introduction to GEOGRAPHICAL INFORMATION SYSTEMS

> lan Heywood Sarah Cornelius Steve Carver

> > Fourth edition

Jacksonville

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GEO157: software

ArcGIS

(1) Provided on lab desktop computers.

(2) Can be installed on your personal laptop and obtained from <u>MySoftware.ucr.edu</u>:

"ESRI provides ArcGIS Desktop Student Trial, a one year trial. Students will need an EVA authorization code and create an account with ESRI in order to obtain their software."

If you wish ot instal it on your laptop, please try and complete this, <u>this week</u> (week #1).

You will need to provide/bring a USB storage ('thumb') drive to the kabs with you for saving work.

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Jacksonville

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GEO157: next class

Friday 6th April at 9 am (same place).

Richmond Norfolk Some GIS-related exercises will be set (that you can do in class, or take away). To be handed in before class starts (9 am) on Monday 9th.

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Louisville

Also remember before then:

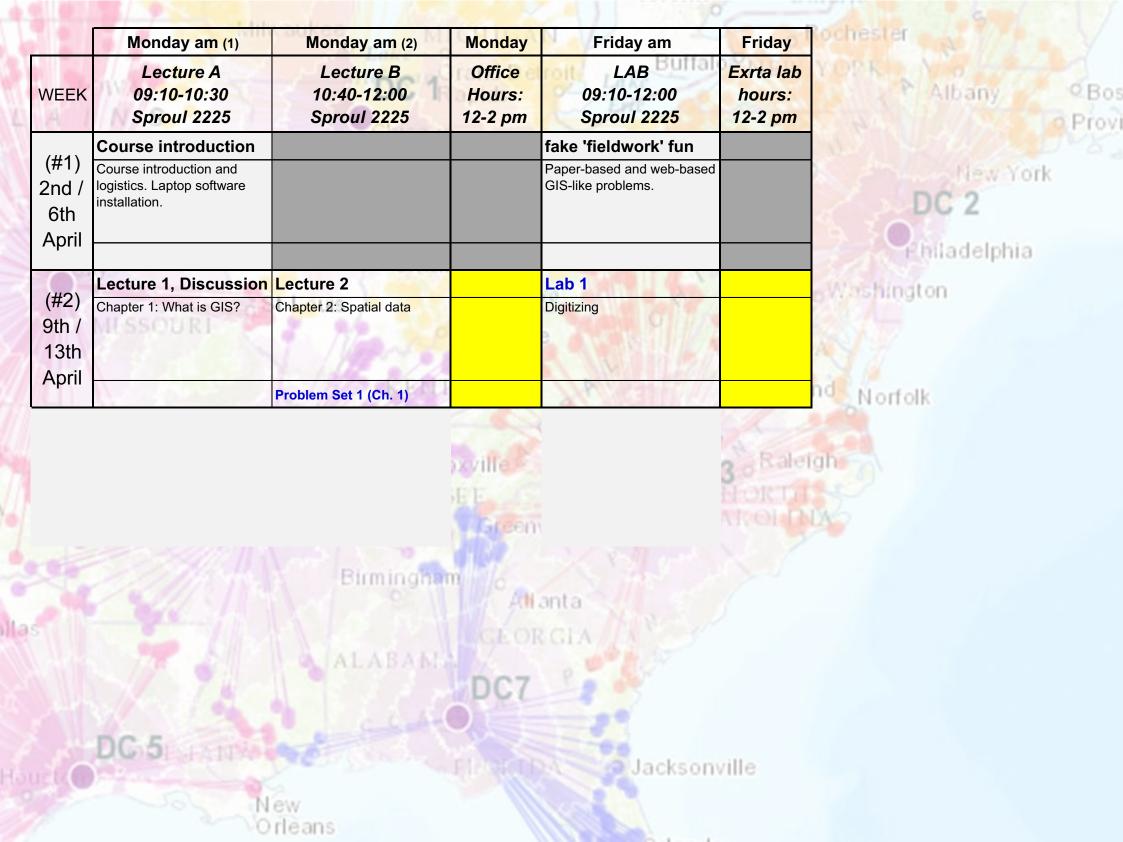
(1) course text book aquestition

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(2) ArcGIS software install

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GEO157: questions?

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