**Pierce College GIS Advisory Committee Meeting**

Thursday, November 3, 2022 (via Zoom)

Adrian Youhanna introduces herself and the main things that are happening in the program at the moment.

* Introductions -
	+ Karen Wenzel – Pierce College GIS graduate; intern with the Transportation Management Center, City of Burbank
	+ David Wilcox – Pierce College GIS graduate; Transportation Management Center Manager, City of Burbank
	+ Jason Finley – Pierce Faculty
	+ Kristine Simonyan – Adjunct; GIS Specialist, City of Los Angeles, Department of Public Works
	+ Nick Franchino - GIS MANAGER**,** Los Angeles County Department of Regional Planning
	+ Chris Morneau – GIS Specialist, Los Angeles County Department of Regional Planning
* Adrian - shares the current certificate requirement
	+ Planning to lower the units from 18 to 15 units.
	+ Remove the computer information systems (CIS 120 or 173).
	+ Have them take 15 units of the core GIS
	+ Possibly incorporate Python into one of the existing classes
	+ Goal is the get students in an out of the program and to help with enrollments.
	+ We are going to archive the AA program
	+ Labor environment want certificate and experience - but skills are all over the place
	+ Shares existing courses:
		- GIS 25 - Lecture/lab
		- GIS 33 - Intermediate GIS
		- GIS 36 - Cartography
		- GIS 37 - GPS
		- GIS 38- Spatial analysis
		- GIS 40 - Internship
* Eliminate the 3 units CIS and make name changes
	+ GIS 40 - Internship name - Project based class for 1 unit. This isn't really internships. Change the name.
		- Nick got hired from internship with county and then hired - the internship class was about how to get a job. LA County has an internship program - it's convoluted and LAPC isn't even part of this - county can do volunteer programs more easily
			* Adrian - Why not community colleges?
			* Nick: Rio Hondo is on the list - get on if you can
			* Chris - not sure there was an internship but he did an independent study. This was key to getting his job. you could rebrand it as "independent study"
				+ Adrian - we can do independent study but there is a limit to how many can be done, but those that are close to end of program do great work. They make their own project ideas. Title of 40 is misleading... it
			* Erin: tell me more about internships-
				+ Nick - volunteering is much easier in terms of paperwork. we don't have paid internships but it is possible to set that up with the county.
				+ Kristine: wasn't paid for internships at county and city but very helpful to get a job.
				+ Adrian: what do you think about the content?
	+ The other change - GIS 36: cartography and basemap development
	+ Chris: concern is the idea of having basemap. You need it have something about "design" - I see a lot of bad design. There are a lot of people who know about making maps but poor design. Add some emphasis in the course on design.
	+ Oscar: I agree - students don't know how to make the map reader friendly - understanding color and visual presentations. The description of 36 seems very very broad. I think remove basemap - this is a specialization. Make these separate - maps of different modality - cell, print, digital etc.
	+ Nick: "Cartography, design, and map development" - I do a ton of webmapping but lots of people mess this up. you need to learn this - design is important. When I look at candidates, I will more likely give it to someone with design.
	+ Kristine: my feedback is we cover design and making them more accessible. with today's technology. we don't want to do basemaps because they already have these. Incorporate ArcGis or webmapping - basics of designing, and dashboard. this is important for them to learn the webmaps. not enough time to spend time on this
	+ Nick - Geographic design: you can tweak what exists and then you would cover it. it might deserve another class but if it is emphasized in all the classes that might be enough.
	+ The word cartography - is about designing maps - "Cartography and Map Development"
	+ Karen - felt like there was extensive map design in the course. if your goal is to attract more people to the program then the word "design" is exciting to people
	+ Oscar: do you require them to take them in this order.
		- we would like to but we can't always do that.
	+ David - bring in story maps instead of basemaps.
* Adrian: GIS 38 - Spatial analysis and modeling.
	+ Adrian: if we add 1 week of Python?
	+ Jason: ArcGIS pro - there is a chapter on Python. How much programming is necessary? I focus on spatial analysis without doing much modeling. We usually run out of time. Should we do a week or 2 as an intro to python?
	+ Oscar - it is very useful at the county. We have a lot of people who are working on this. As people are data "stewards" rather than cartography, they need this. Java Script or Python - how these programming paths are implemented in the real world.
	+ Chris - Programming is fundamental to the workplace. There are some basic things that could be taught in a class like this. I do a lot of model building - an intro to model builder would be helpful. it would be a stepping stone to programming and maybe arcade that is also related to design.
	+ Nick - county is making people take a test in python. Partially because there is not GIS test out there, so they offered python test instead. Lot of people at county use model builder, arcade, and python.
	+ Oscar: interview questions will be addressing python - becoming more and more important.
	+ Chris: Map automation is interesting and fun and valuable to intro students to that.
	+ Adrian: this is good for Kristine and Jason. Do we take out the modeling term? What title?
		- Kristine: "Spatial analysis and Automation". Spend a month on python - replace some chapters with python.
			* Jason - students are afraid of the term modeling.
* Adrian: ArcPro versus ArcMap
	+ Oscar - yes we use both. it works for somethings but not all.
	+ Chris and Nick - we use it for everything new - some haven't transitioned yet so everyone should be able to know Arcmap but be able to bridge the platforms.- they are in a transition period. 60/40% but in a few years we all be on Pro.
	+ Nick- ArcGIS Mark Steinberg did a post about jobs in LA County because we have an archaic exam process. The current cycle is done but there will be another. Esri's MOOC classes - these have been great. Very useful for students - supplements.
	+ David - great to reduce units. David had trouble finishing because the course wasn't available.