BLACKHAWK SCHOOL DISTRICT

CURRICULUM

Course Title: Geospatial Technology II

Course Number: 1056
Grade Level(s): 9-12
Periods Per Week: 5
Length of Course: ½ year
Credits: .5

Faculty Author(s): Tim Linkenheimer

Date: January 2013

COURSE DESCRIPTION: This Course is an advanced skill of geographic information systems (G.I.S.) ArcView 9.3® software. Emphasis of this course will be placed in the following areas: Geodatabases, Map Digitizing, Georeferencing, Spatial Adjustment, Geocoding, Map Labels and Annotation, Map Hyperlinking, and customizing ArcGis. Students will be working on project teams and will need prior basic computer knowledge. In order to be eligible, students must have a minimum of a "C" in Geospatial Technology I.

The following outline provides a general overview of the course content, not a chronological timetable. The weeks denoted for each area provide an idea for the overall time spent working with a given topic throughout the school year.

COURSE OUTLINE	OBJECTIVES (PA standard)	PROPOSED TIME / ACTUAL TIME	RESOURCES	LESSON REFLECTION (for future revisions)
1. Class Orientation	3.4.12.A3.	2 days	Syllabus	
	Demonstrate how technological progress promotes			
2. Geodatabases II	the advancement of science, technology ,	5 days	Arc GIS Software	
	engineering and mathematics (STEM).		(Moodle)	
	3.4.10.B2.			
	Demonstrate how humans devise technologies to			
	reduce the negative consequences of other	5 days	Arc GIS Software	
	technologies.	-	(Moodle)	
3. Georefercing	3.4.10.C1.			
5. Georgiereng	Apply the components of the technological design	5 days	Arc GIS Software	
	process.		(Moodle)	
4. Spatial Adjustment	3.4.12.C3.			

5. Digitizing II	Apply the concept that many technological problems require a multi-disciplinary approach. 3.4.12.E4 Synthesize the effects of information and	5 days	Arc GIS Software (Moodle) Arc GIS Software
6. Digitizing III	communication systems and subsystems as an integral part of the development of the Information Age.	5 days	(Moodle) Arc GIS Software
7. Geocoding our community		5 days	(Moodle) Arc GIS Software
8. Density Mapping			(Moodle) Arc GIS Software
9. Hyperlinking		5 days	(Moodle)
10. Labels and Annotations		5 days	Arc GIS Software (Moodle)
		2 days	Arc GIS Software (Moodle)
Advanced Attributes & SQL Queries			Arc GIS Software (Moodle)
12. Working with Rasters13. Customizing ArcGIS		5 days	Arc GIS Software (Moodle)
		5 days	Arc GIS Software (Moodle)
14. Classification		5 days	Arc GIS Software (Moodle)
15. Google Sketchup (Our Community)		5 days	Arc GIS Software (Moodle)

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16. GIS II Final		1 day	Arc GIS Software (Moodle)	