Simon Fraser University
Department of Geography
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GEOG 351-4 (Q)
Spring 2018
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MULTIMEDIA CARTOGRAPHY

Course Outline

Prerequisites: GEOG 255

Course Details
The course focuses on elements of cartographic analysis, design and visualization, with an emphasis on digital mapping, animation techniques, cartographic software and internet mapping. Practical foundation about the current developments and applications in the expanding fields of web GIS and multimedia cartography will be addressed. Students will combine digital mapping principles and spatial information design methods to construct and implement high quality mapping applications for use on the web, mobile and other platforms. The focus is to create engaging GIS mapping solutions with little or no computer programming for communication, analysis and decision-making purposes. The topics will involve: *Web and mobile GIS, multimedia cartography design, interactive mapping services and platforms, social media and volunteered geographic information, citizen science, spatiotemporal animations, open geoportals and atlases, and spatial simulation systems.*

Students will learn about and practice multimedia cartography principles through formal lectures, computer labs, individual assignments, and analysis of public geospatial data. GIS, mapping and data analysis software will be used to explore real-world solutions. There will be a strong emphasis on problem-based and interactive learning. The selected readings will enhance and extend understanding of the materials presented in the class lectures, and facilitate more meaningful participation during the classroom discussions.

The guided computer lab sessions will use sample and full data sets as well as mapping software to reinforce the theoretical concepts and methods presented in the class lectures. These labs will allow students to apply multimedia cartography methods to a variety of problem contexts within geography and other related disciplines. The software is available in the SFU SIS lab.

Required Text: None. Selected weekly readings will be made available.

Grading:
The final grade for the course will be determined from: class participation (2%); laboratory assignments (45%); mid-term test (20%); project presentation (3%), final project (30%). There is no final exam. All marks in the course are absolute and hence not scaled or assigned based on a curve.

Labs will begin in the week of January 8th, 2018.

This course may be applied towards the *SIS Certificate Program*.
The content is subject to changes depending on the number of students, class progress, and available resources.