

GEOG 85 - Mapping: Cartography, Space and Power

Instructor: Clancy Wilmott

Course Times: 2 x 1hr Lectures; (Optional: .5hr discussion/workshops)

Room: 141 McCone

From mapping protests to the polar ice caps, colonialism to crises, board games to the baroque, this course offers an introduction to critical cartography and the politics of maps. It explores the way in which maps continue to reflect and shape our worlds, how they are used as tools for both description and argumentation across arts, science, engineering and the humanities.

Students will engage with foundational concepts from geography and cartography, as well as skills in the critical analysis of different forms of mapping and the wider conversations that surround them. Broadly centered on the contemporary carto-politics of the Pacific, each lecture focuses on a different field of mapping - such as protest mapping, ocean mapping or star mapping - comparing the techniques and conceptual underpinnings of how humans use cartography to represent the world. Crucially, this course teaches students to think critically not only about different kinds of maps, but also about the academic and professional discussions that continue to shape contemporary debates on maps, mapping, their meanings, and [ab]uses.

Course Requirements

No prerequisites.

Course Information

Lectures will be complemented by review sections devoted to fuller class discussion of the readings and lecture material.

Course Website

We will use bCourses for posting announcements, distributing readings, maps and list items for map quizzes, and for other purposes. Please go to bCourses and log on using your CalNet ID and passphrase.

Assessment:

This course is assessed throughout the semester and with a final exam during the exam period.

Assessment	Weighting	Due Date
Class Assignment 1: Critiquing Cartography	10%	Week 5
Class Assignment 2: Cartographic Controversies	10%	Week 11
Quizzes (x5)	20%	Weeks 2, 4, 6, 8, 10
Final Exam	30%	Exam Period
Participation + Engagement	30%	Throughout

Class Assignments

These assignments are designed to assess how well you are developing your skills in cartographic analysis and critique, creative thinking, independent research and application of the course concepts to new contexts.

Class Assignment 1: Critiquing Cartography

Week 5, <1500 Words, Chicago Author-Date - 10%

This assessment essay asks you to critique a map using your skills in analysis and research.

From the David Rumsey Map Digital Map Collection (<https://www.davidrumsey.com/>), choose a map. Then, using materials from the course, and beyond, "deconstruct" the map to explore the ways in which it uses cartographic tools and authority to tell a particular story.

Key questions to consider are:

- What is included on the map, and what isn't?
- What kind of symbology, colour and patterning are used on the map?
- What categories are used to structure cartographic information?
- What about the composition of the map? What is the scale and the extent, what is in the centre, and what is at the top and bottom?
- Who was the author of the map, and who + what was the map made for?
- Has anyone else done research on this map, or similar maps? What have they said about them?

You will be assessed on:

- a) the depth of your analysis and critique
- b) your use of evidence and explanation in the critique (including close-ups, descriptions and images)
- c) Your use of references from the course, and external sources

Class Assignment 2: Cartographic Controversies

Week 11, <1500 Words, Chicago Author-Date, 10%

This assessment asks you to investigate a “cartographic controversy”, where at least two maps that purport to represent the same phenomena come into conflict (intentionally or otherwise).

Key questions to consider are:

- Which actors are involved in this controversy and how does this influence their engagement?
- What is the “level” or “object” of their disagreement?
- What kinds of knowledge-power are being exercised?
- How are they being exercised? Think about symbols, content/information, color, texture, labels, titles, and other cartographic conventions

Participation + Engagement

You will be graded on your participation and engagement in the course as P/NP. We understand that life is sometimes complicated, so attendance in lectures and sections is not mandatory but is highly recommended to do well in your other assessments. If you cannot attend a lecture or section, *you must let us know beforehand*. Lectures and sections will not be recorded except in very specific circumstances - if you miss a class you are responsible to find out what material you missed and what announcements were made during your absence.

To achieve a passing grade, you must *clearly and demonstrably* participate in this class, across one or more modes of engagement: using bCourses to access class readings and

supplementary materials, posting materials to or helping others debug on the class Slack group, discussing ideas in class sections, turning up to lectures and asking questions, reaching out to your GSI if you're struggling, contacting us if you can't make the class, using office hours. We understand that everyone has different ways that they prefer to participate - some like to talk, some like to write etc... - so you can choose your own mode, as long as it is visible to us and we know that it's you!

Final Exam

Questions, including ones on the final exam, will be handed out **May Xth** to allow you to prepare for the proctored final exam on **May X**. The final exam will consist of some of these questions, other short-answer questions, and key terms. The final exam will comprise 30% of the course grade.

Course Schedule + Readings

W/C	Lecture 1	Lecture 2
1/16	MLK Jr Day - No Class	<p>What is Cartography + Mapping?</p> <p>Crampton and Krygier (2005) "An Introduction to Critical Cartography" <i>ACME Journal of Radical Geography</i>.</p> <p>Edney, Cartography Without Progress.</p>

<p>1/23</p>	<p>Social Mapping</p> <p>Kindynis (2014), Ripping up the Map: Criminology and Cartography Reconsidered, <i>The British Journal of Criminology</i>, 54(2): 222–243</p>	<p>Population + Election Mapping</p> <p>Schulten, S (2012) “The Cartographic Consolidation of America” in <i>Mapping the Nation: History and Cartography in Nineteenth-Century America</i>. Chicago, IL: University of Chicago Press.</p>
<p>1/30</p>	<p>National Mapping</p> <p>Sparke (1998), “A Map that Roared and an Original Atlas: Canada, Cartography, and the Narration of Nation” <i>Annals of the American Association of Geographers</i> 88(3): 463-495</p>	<p>Propaganda Mapping</p> <p>Cosgrove and Della Dora (2005) “Mapping Global War: Los Angeles, the Pacific, and Charles Owens's Pictorial Cartography” <i>Annals of the American Association of Geographers</i> 95(2): 373-390</p>
<p>2/6</p>	<p>Regional Mapping</p> <p>Vujakovic, P (2020) “The map is the story: the U-shaped line in western news media coverage of the geopolitics of the South China Sea”, <i>International Journal of Cartography</i>, 6:2, 179-201</p>	<p>Polar Mapping</p> <p>Young, K., (2018). “Indigenous cartographies of Arctic Places and Spaces”. <i>Routledge handbook of the polar regions</i>. London: Routledge, pp.81-89.</p>

<p>2/13</p>	<p>Nautical Mapping</p> <p>Lars Eckstein & Anja Schwarz (2019) "The Making of Tupaia's Map: A Story of the Extent and Mastery of Polynesian Navigation, Competing Systems of Wayfinding on James Cook's Endeavour, and the Invention of an Ingenious Cartographic System", <i>The Journal of Pacific History</i>, 54:1, 1-95</p> <p>Eckstein and Schwarz, Response</p>	<p>Celestial Mapping</p> <p>Savage-Smith, E "Celestial Mapping" in <i>History of Cartography Vol 2</i>. Chicago: U. Chicago Press.</p>
<p>2/20</p>	<p>No Class- Presidents Day</p>	<p>Military Mapping</p> <p>Lutz, C (2011) "The Political Economy and Political Aesthetic of Military Maps (Guam)" in Macguire M (ed) <i>Spaces of Security: Ethnographies of Securityscapes, Surveillance, and Control</i>. New York: NYU Press. 184-192.</p>

<p>2/27</p>	<p>Coastal + Island Mapping</p> <p>Hamylton, S. (2014), "Critical Cartography and the Use of New Technologies for Conserving the Australian Coastline: A Case Study from Lord Howe Island" <i>Geographical Research</i>, 52: 65-73.</p>	<p>(de)Colonial Mapping</p> <p>Hetoevêhotohke'e Lucchesi, A (2018) "Indians Don't Make Maps": Indigenous Cartographic Traditions and Innovations. <i>American Indian Culture and Research Journal</i> 42 (3): 11–26.</p>
<p>3/6</p>	<p>Geological Mapping</p> <p>Boyle E. (2020) "Sketching Layers in Japan: Mineral Wealth, Geo-bodies and Imperial Territory". In: Kent A., Vervust S., Demhardt I., Millea N. (eds) <i>Mapping Empires: Colonial Cartographies of Land and Sea</i>. Springer, Cham.</p>	<p>Planetary Mapping</p> <p>Lane, K. Maria D. (2012) "Maps, images, and icons: Creating the geography of Mars." <i>Rheinsprung</i> 11: 50-65.</p>
<p>3/13</p>	<p>Fictional Mapping</p> <p>Bushell, S. (2020). Mapping Worlds: Tolkien's Cartographic Imagination. In <i>Reading and Mapping Fiction: Spatialising the Literary Text</i> (pp. 199-236). Cambridge: Cambridge University Press.</p>	<p>Game Mapping</p> <p>Fraser and Wilmott (2018) "From Underground to the Sky: Navigating Verticality through Play". In <i>Playful Mapping in a Digital Age</i>. Amsterdam: INC Press. 114-129.</p>
<p>3/20</p>	<p>Spring Recess</p>	

<p>3/27</p>	<p>Urban Mapping</p> <p>Hillier A. (2017) Making Sense of Cities: The Role of Maps in the Past, Present, and Future of Urban Planning. In: Brunn S., Dodge M. (eds) Mapping Across Academia. Springer, Dordrecht. https://doi.org/10.1007/978-94-024-1011-2_3</p>	<p>Protest Mapping</p> <p>McElroy (2019). "Mapping the Anti-Eviction Struggle in the San Francisco Bay Area". <i>This Is Not an Atlas</i>, edited by kollektiv orangotango+, Bielefeld: transcript-Verlag: 38-45.</p>
<p>4/3</p>	<p>Crisis Mapping</p> <p>Palmer (2014) 'Ushahidi at the Google interface: critiquing the 'geospatial visualization of testimony'', <i>Continuum</i>, 28:3, 342-356</p>	<p>Participatory Mapping</p> <p>Anthias, P. (2019) 'Ambivalent cartographies: Exploring the legacies of indigenous land titling through participatory mapping', <i>Critique of Anthropology</i>, 39(2), pp. 222–242</p>
<p>4/10</p>	<p>Time Mapping</p> <p>Rosenberg and Schwartz (2012) "Introduction" in <i>Cartographies of Time</i>. New York: Princeton Architectural Press</p>	<p>Transport Mapping</p> <p>Merrill, SI (2013) The London Underground Diagram: Between Palimpsest and Canon, <i>The London Journal</i>, 38:3, 245-264</p>
<p>4/17</p>	<p>Weather Mapping</p> <p>Carter J.R. (2017) Weather Maps. In: Brunn S., Dodge M. (eds) <i>Mapping</i></p>	<p>Climate Mapping</p> <p>Schneider, B. (2016) Burning worlds of cartography: a critical approach to climate cosmograms of the</p>

	<i>Across Academia</i> . Springer, Dordrecht.	Anthropocene. <i>Geo: Geography and Environment</i> , 3: 2
4/24	Computer Mapping McHaffie (2000) "Surfaces: tacit knowledge, formal language, and metaphor at the Harvard Lab for Computer Graphics and Spatial Analysis", <i>International Journal of Geographical Information Science</i> , 14:8, 755-773,	Review Week