

GEOG 361 Course Summary, FA22 – v1 Aug 20, 2022

C. Brewer

<i>Date:</i>	<i>Lecture topic:</i>	<i>Lab notes:</i>
Mon Aug 22	Introduction	
Wed Aug 24	Basemap content	
		<i>No labs, setup ArcGIS Pro</i> <i>week 1</i>
Mon Aug 29	Typography & map labeling	
Wed Aug 31		
		Lab1, Emulate existing design <i>week 2</i>
Mon Sep 5	<i>No class on Labor Day</i>	
Wed Sep 7	Color use on maps, Test1 on base & labels (5%)	
		<i>Lab1 progress check</i> <i>week 3</i>
Mon Sep 12	Color use (continued)	
Wed Sep 14		(#1 due, 8%)
		Lab2, Create map designs <i>week 4</i>
Mon Sep 19	Symbols & visual variables	
Wed Sep 21	Test2 on color & viz vars (7%)	
		<i>Lab2 progress</i> <i>week 5</i>
Mon Sep 26	Choropleth & data classing	
Wed Sep 28		(#2 due, 8%)
		Lab3, Thematic <i>week 6</i>
Mon Oct 3	Point symbols	
Wed Oct 5	Test3 on symbols & classing (7%)	
		<i>Lab3 progress</i> <i>week 7</i>
Mon Oct 10	Multivariate mapping	
Wed Oct 12		(#3 due, 8%)
		Lab4, Multivariate <i>week 8</i>
Mon Oct 17	Page layout & design	
Wed Oct 19	Test4 on symbols (7%) (<i>NACIS conference</i>)	
		<i>Lab4 progress</i> <i>week 9</i>
Mon Oct 24	Terrain representation	
Wed Oct 26		(#4 due, 8%)
		Lab5, Terrain <i>week 10</i>
Mon Oct 31	Map projections	
Wed Nov 2	Test5 on layout & terrain (7%)	
		<i>Lab5 progress</i> <i>week 11</i>
Mon Nov 7	Map projections (continued)	
Wed Nov 9		(#5 due, 8%)
		Lab6, Projection (one-week lab) <i>week 12</i>
Mon Nov 14	Generalization	
Wed Nov 16	Test6 on projections (7%)	<i>week 13</i>
		<i>Lab6 progress</i> (#6 due, 5%)
<i>Thanksgiving week (no lectures or labs Nov 21-25)</i>		
Mon Nov 28	Generalization (continued)	
Wed Nov 30		
		Lab7, Generalization <i>week 14</i>
Mon Dec 5	Design though scale	
Wed Dec 7	Test7 on generalization & scale (7%)	<i>Lab7 progress</i>
		<i>week 15</i>
Exam week: All late work due by Wed, Dec 14 (or graded zero) Lab7 due Mon/Tues, Dec 12/13 (8%)		

Textbook: Cynthia Brewer, 2016, *Designing Better Maps: A Guide for GIS Users* (2nd edition), Esri Press.

Additional readings assigned from online resources, primarily: *Cartography and Visualization* section of the UCGIS GIS&T Body of Knowledge - <https://gistbok.ucgis.org/knowledge-area/cartography-and-visualization>

Week 1, starts Aug 22**Intro & basemaps**

Read Ch 2 'Basemap Basics' (**except** 'Mapping Though Scale') section of text
 Read CV-03 'Vector Formats and Sources,' in BoK
 Read CV-20 'Raster Formats and Sources,' in BoK

quiz1

Week 2, starts Aug 29**Type & map labeling**

Read Ch 5 'Type Basics' in text
 Read Ch 6 'Labeling Maps' in text
 Read CV-10 'Typography' in BoK

quiz1

Weeks 3 & 4, start Sept 5 & 12**Color use on maps**

Read Ch 7 'Color Basics' in text
 Read Ch 8 'Color on Maps' in text (**except** Bivariate section)
 Read CV-09 'Color Theory' in BoK

quiz2

Week 5, starts Sept 19**Symbols & visual variables**

Read Ch 9 'Customizing' in text (**except** Multivariate section)
 Read CV-08 'Symbolization and the Visual Variables' in BoK
 Read CV-11 'Common Thematic Map Types' in BoK

quiz2

Week 6, starts Sept 26**Choropleth & data classing**

Read CV-05 'Statistical Mapping' in BoK

quiz3

Week 7, starts Oct 3**Point symbols**

Read CV-34 'Map Icon Design' in BoK

quiz4

Week 8, starts Oct 10**Multivariate mapping**

Read Ch 8 'Bivariate' in text
 Read Ch 9 'Multivariate' sections in text
 Read CV-12 'Multivariate Mapping' in BoK
Also:
 Read CV-17 'Spatiotemporal Representation' in BoK
 Read CV-32 'Cartograms' in BoK
 Read CV-31 'Flow Maps' in BoK
 Read CV-36 'Geovisual Analytics' in BoK

quiz4

GEOG 361 Readings, FA22 (continued)

Week 9, starts Oct 17

Page layout & design

Read Ch 1 'Planning' in text

Read Ch 3 'Explaining' in text

Read CV-07 'Visual Hierarchy and Layout' in BoK

Read CV-40 'Mobile Maps and Responsive Design' in BoK

quiz5

Week 10, starts Oct 24

Terrain representation

Read CV-14 'Terrain Representation' in BoK

quiz5

Weeks 11 & 12, start Oct 31 & Nov 17

Map projections

Read CV-06 'Map Projections' in BoK

quiz6

Weeks 13, 14 & 15, start Nov 14 & 28, Dec 5 **Generalization**


Read Ch 2 section on 'Mapping Though Scale' in text

Read CV-04 'Scale and Generalization' in BoK

quiz7

Text purchase options

9781589484405 **Designing Better Maps by Brewer, Cynthia** PAPERBACK



Designing Better Maps PAPERBACK
by Brewer, Cynthia (9781589484405) - 2ND
16
INGRAM PUB
[Digital Requirements](#) ▶

Current Student Pricing

Pricing is subject to change

New:	\$ 60.00
Used:	\$ 45.00
Rent,new:	\$ 40.80
Rent,used:	\$ 28.20
eBook, buy:	\$ 27.50
(120 days)	
eBook, buy:	\$ 17.50
(60 days)	
eBook, buy:	\$ 49.99
eBook, buy:	\$ 32.50
(180 days)	

Students can save up to **71%**

Note for bookstore: (optional)

250 characters max - plain text only

This book is:

Required

Recommended

Cartography and Visualization

The Cartography & Visualization section encapsulates competencies related to the design and use of maps and mapping technology. This section covers core topics of reference and thematic maps design, as well as the emerging topics of interaction design, web map design, and mobile map design. This section also covers historical and contemporary influences on cartography and evolving data and critical considerations for map design and use.

Topics in this Knowledge Area are listed thematically below. Existing topics are in regular font and linked directly to their original entries (published in 2006; these contain only Learning Objectives). Entries that have been **updated and expanded** are in **bold**. Forthcoming, *future topics are italicized*.

<u>History & Trends</u>	<u>Map Design Techniques</u>	<u>Interactive Design Techniques</u>
Cartography & Science	Common Thematic Map Types	User Interface and User Experience (UI/UX) Design
Cartography & Art	Multivariate Mapping	Web Mapping
Cartography & Power	Spatio-Temporal Representation	Virtual & Immersive Environments
	Representing Uncertainty	Big Data Visualization
	Terrain Representation	Mobile Maps & Responsive Design
	Cartograms	Usability Engineering & Evaluation
Data Considerations	Map Icon Design	Geovisual Analytics
Vector Formats & Sources	Narrative & Storytelling	Geovisualization
Raster Formats & Sources	Flow Maps	
Map Design Fundamentals	Collaborative Cartography	
Scale & Generalization	Map Use	
Statistical Mapping (Enumeration, Normalization, Classification)	Lesson Design in Cartography Education	
Map Projections	Map Reading	
Visual Hierarchy & Layout	Map Interpretation	
Symbolization & the Visual Variables	Map Analysis	
Color Theory		
Typography		
Design and Aesthetics		
Map Production and Management		