

Kutztown University: Fall 2011
GEG 330: Cartography

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Office Hours: MWF 11 - 11:50; TH 10 - 10:50,
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<http://faculty.kutztown.edu/courtney> "Course Announcements" ☞ Check here daily!

LECTURE/LAB: TH 1:30-3:20 PM Rm: Graduate Center 100

REQUIRED TEXTS: Robinson et. al., Elements of Cartography, Sixth Edition,
and National Geographic College Atlas of the World

REQUIRED SUPPLEMENTARY MATERIALS: You are to read the assigned tutorials in Desire2Learn.

GRADING: Exams 3 x 15% = 45% True/False, Fill-ins, Short Essays, and Take-home Essay
 Projects 7 x 5% = 35%
 Project Portfolio 1 x 5% = 5%
 Poster Project 1 x 15% = 15%

Course Grading Scale:

Pts. Range	Grade
90% +	A
75 - 89	B
60 - 74	C
50 - 59	D
< 50	F

Warning: College and University policies regarding cheating, plagiarism, and academic fraud will be enforced at my discretion. See *The Key* for policies.

Cell phone use is prohibited: They may not be used as calculators either.

No extra credit work will be assigned other than an in-class video.

Attendance Policy: I follow the policies of the College of Liberal Arts and Sciences. See https://portal.kutztown.edu/common/catalog/pdf/cat_ug_06.pdf

Make-up Policy: Students must arrange to take missed quizzes or exams as soon as possible. Excuses must cover every day missed between the quiz/exam date and the date of the make-up quiz/exam. See the web address immediately above for acceptable excuses.

Course Objectives:

This course is designed to instruct students as to the fundamentals of good cartography. The main objectives are for students to become proficient with data manipulation and the proper use of the graphic elements and visual variables, skills that constitute the very foundation of good cartography. In this pursuit, students will also become familiar with map coordinates, scale, and projections. Students will study and create maps representative of the major cartographic classes. Cartography will be performed in the computer/GIS environment. Although no prior experience with GIS is required, basic computer skills are necessary. Overall, students are to become adept in gathering, manipulating, and representing geographic data in the Excel and ArcInfo environments, and to produce a portfolio of maps in Adobe Acrobat Pro to be used during job interviews.

This course satisfies Competencies Across the Curriculum categories
B Computer-Intensive, and C Visual Literacy.

TENTATIVE COURSE SEQUENCE

Section 1: Introduction; The Nature of Cartography (Exam 1)

Reading: Chapters 1, 2, and 3. D2L* Section 1.

Section 2: Geographic Coordinates and Map Scale (Exam 1)

Reading: Chapters 4 and 6 pp. 92-95. D2L Section 2.

Exercise 1: Using an atlas, working with coordinates, and calculating map scale.

Section 3: Map Projections (Exam 1)

Reading: Chapter 5. College World Atlas pp. 12-13. D2L Section 3.

Exercise 2: Data Processing and Display in Excel.

Section 4: Map Design and Typography (Exam 2)

Reading: Chapters 18 and 22 pp. 404-414, 416-423. D2L Section 4.

Video: "Tissue of Lies"

Exercise 3: Point Symbol Mapping.

Section 5: Cartographic Generalization: Symbolization (Exam 2)

Reading: Chapters 24 pp. 450-467; and 25 pp.475-492. D2L Section 5.

Section 6: Geographic Data, Graduated Symbols, and Dot Maps (Exam 2)

Reading: Chapters 16 pp. 271-277, 279-283; 25 pp. 480-486; 26 pp.494-501; and Appendix A. D2L Section 6.

Exercise 4: Graduated Symbol Mapping.

Exercise 5: Dot Mapping.

Section 7: Isarithmic Mapping (Final)

Reading: Chapters 26, pp. 505-515; and 27 pp. 538-543. D2L Section 7.

Exercise 6: Isoline Mapping.

Section 8: Choropleth Mapping (Final)

Reading: Chapter 26, pp. 515-525. D2L Section 8.

Exercise 7: Choropleth Mapping.

Section 9: Map Reproduction (Final)

Reading: Chapters 30, and 31, pp. 590-596. D2L Section 9.

Final Projects and Exercise Portfolios
Are Due On
Thursday, December 9 by 4:00 p.m.

*D2L: Desire 2 Learn

Kutztown University
Fall 2011 Calendar
GEG 330: Cartography

Sun	Mon	Tue	Wed	Thu	Fri
1 st wk. Aug. 28	29	30 Intro., Lab Accounts and Defining Geography	31	Sep. 1 The Nature of Cartography	2
2 nd wk. 4	5 No Classes	6 Mon. Schedule	7	8 Earth's Shape and Coordinates <i>Tissue of Lies</i> video	9
3 rd wk. 11	12	13 Map Scale (bring calculator) Ex. 1 Coordinates and Scale	14	15 Map Projections	16
4 th wk. 18	19	20 Ex. 2 Data Processing and Display in Excel	21	22 Work on Ex. 2 <i>Take home essay out.</i>	21
5 th wk. 25	26	27 Exam 1	28	29 Map Design and Typography	30
6 th wk. Oct. 2	3	4 Introduction to ArcGIS (<i>ArcIntro</i>)	5	6 Ex. 3 Point Symbol Mapping	7
7 th wk. 9	10 No Classes	11 Work on Ex. 3	12	13 Cartographic Generalization and Symbolization	14
8 th wk. 16	17	18 Geographic Data	19	20 Graduated Symbols & Dot Maps Ex. 4 Graduated Symbols	21
9 th wk. 23	24	25 Work on Ex. 4	26	27 Final Project Talk <i>Take home essay out</i>	28
10 th wk. 30	31	Nov. 1 Exam 2 Ex. 5 Dot Mapping	2	3 Work on Ex. 5	4
11 th wk. 6	7	8 Isarithmic Mapping	9	10 Ex. 6 Isoline Mapping	11
12 th wk. 13	14	15 Work on Ex. 6	16	17 Proposals Due Choropleth Mapping	18
13 th wk. 20	21	22 Class Interval Calculations (bring calculator) Ex. 7 Choropleths	23	Thanksgiving	Break
14 th wk. 27	28	29 Work on Ex. 7	30	Dec. 1 Map Reproduction	2
15 th wk. 4	5	6 Work on Final Projects. (All remaining exercises due by 4:00)	7	8 Final Projects and Map Portfolios Due by 4:00	9
Finals Week	12	13	14	15 Final Exam at 11:00 a.m.	16

Sequence and timing may change, so be aware of announced alterations!
Check my home page (<http://faculty.kutztown.edu/courtney>) and click the link to
Course Announcements for updates on any course changes.

Cartography Grading Chart

Exercise Scores and Points				Final Project Proposal & Map Scores & Points			Exam Scores and Points				Project Portfolio Score & Points			
	Score	Out of	Pts.§	Score	Out of	Pts.¥		Score	Out of	Pts.‡	Score	Out of	Pts.£	
Ex. 1					45		Exam 1							
Ex. 2					55		Exam 2							
Ex. 3				¥ For Proposal Points, (Score ÷ 45) × 6.75 ¥ For Final Map Points, (Score ÷ 55) × 8.25			Final							
Ex. 4														
Ex. 5														
Ex. 6														
Ex. 7														
Sum of Ex. Pts.				Final Pjt. Pts.			Sum of Exam Pts.				Portfolio Pts.			
§For Exercise Points, (Score ÷ Out of) × 5							‡For Exam Points, (Score ÷ Out of) × 15				£For Portfolio Points, (Score ÷ Out of) × 5			
Course Points Structure: 35 Ex. Pts. + 15 Final Project Pts. + 45 Exam Pts. + 5 Portfolio Pts. = 100 points														

Sum of Points From Above Equals Overall Percentage

Record all of your scores on this form and retain all your work in case of any discrepancies.