

Thematic Cartography

GEOG 332

Instructor

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by appointment

Teaching Assistant

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Course Description

This class is an introduction to the science and art of map production. The course covers the principles of thematic map compilation and design; history of thematic mapping; map projections; data management and symbolization; common types and styles of thematic maps.

Meeting Times and Location

Lecture Monday and Wednesday 12:40-13:30

CSA 303

Labs 502 Monday 15:00-16:50 and **501** Wednesday 10:15-12:15

Eller O&M 807

Text

Dent, Borden D. 1998. **Cartography: Thematic Map Design**. 5th ed. Dubuque, IA. Wm. C. Brown Publishers.

With Additional Readings from

Berggren, J.L. and Jones, A. 2000. **Ptolemy's Geography: An Annotated Translation of the Theoretical Chapters**. Princeton. Princeton University Press.

Monmonier, M. 1996. **How to Lie with Maps**. Chicago. The University of Chicago Press.

Sobel, D. 1995. **Longitude**. New York. Penguin Books

And Cartographic Production Accomplished using

ArcGIS™

ArcView GIS

Adobe Illustrator®

Class web site

There is an extensive website associated with this class. Updates to the syllabus as well as other laboratory and course materials will be made available on the course website.

<http://geog.tamu.edu/klein/geog332>

Cellular Telephones

As a courtesy to the instructor and other students please turn off all cellular telephones and two-way pagers before the class begins. I find it extremely impolite to be interrupted by a cellular telephone when I am lecturing.

Email

All Texas A&M students should use their neo email accounts when emailing the instructor and teaching assistants. I may also send out class announcements via the neo email system as well. It is your responsibility to check your neo email account regularly.

Grading

Your grade in this class will be based on the following:

A. 2 Midterm Exams	15% each
February 28 ^h	
April 18 ^h	
B. 1 Final Project	20%
Final Projects are due by 5pm on Monday May 7th	
C. Approximately 12 projects of which the 10 best will count	50%

Makeups for the Exam will be allowed only for excused absences. Excused absences are covered in section 7 of the Texas A & M University Student Rules (<http://student-rules.tamu.edu>)

Grades will be assigned according to the following scale:

A	90+ %
B	80-89%
C	70-79%
D	60-69%
F	< 60%

Class Attendance

The university views class attendance as the responsibility of the individual student.

Scholastic Dishonesty

It is my hope that academic dishonesty will not be a problem in this class. Texas A&M does, however, have a *Scholastic Dishonesty* policy to which both students and faculty must comply. If you have any questions about the University's Scholastic Dishonesty policy please review the Student Rules or see me. The Aggie Honor program is the new program that will handle all cases of academic dishonesty. The Aggie Honor program website is located at <http://www.tamu.edu/aggiehonor>

The materials used in this course are copyrighted. These materials include but are not limited to syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless permission is expressly granted.

As commonly defined, plagiarism consists of passing off as one's own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated.

If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, <http://student-rules.tamu.edu>, under the section "Scholastic Dishonesty."

"Aggies don't lie, cheat, or steal, nor tolerate those that do"

Student Support

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities in Room B118 of Cain Hall, or call 845-1637.

For more information please contact:

Services for Students with Disabilities

Room B118 of Cain Hall, 845-1637, <http://studentlife.tamu.edu/ssd/>

There are numerous other student support organizations on campus including

Center for Academic Excellence and Academic Assistance Clearinghouse

525 Blocker, 845-2724, <http://www.tamu.edu/cae>

Student Counseling Service

Henderson Hall, 845-4427, www.scs.tamu.edu, Helpline 5:00pm-8:00am: 845-2700

Please do not hesitate to ask me if you have any problems or if you are having any trouble in the class, see me before it becomes a *problem*.

Course Schedule

<i>Date</i>	<i>Lecture</i>	<i>Reading</i>	<i>Lab</i>
1/15	No Class – Martin Luther King Day		No Lab
1/17	Introduction to the Class and Thematic Cartography	Chapter 1	<i>Lab Exercise 1</i> Point of Interest
1/22	Introduction to Thematic Cartography	Book 2 of Ptolomey's Geography	Introduction to Geography Computer Network
1/24	Cartography - Past, Present and Future		<i>Lab Exercise 2</i> Map Design
1/29	Map Scale and Map Projections	Chapter 2	Introduction to ArcGIS
1/31	Map Projections	Chapter 3	<i>Lab Exercise 3</i> Map Projections
2/5	Processing of Geographical Data	Chapters 4, 5 and 18	Introduction to Excel
2/7	Map Design	Chapter 13	<i>Lab Exercise 4</i> Statistics&Graphing
2/12	Map Organization	Chapter 13	Introduction to Adobe Illustrator
2/14	Map Symbolization	Chapter 4	<i>Lab Exercise 5</i> Map Composition
2/19	Color	Chapter 15	Advanced Adobe Illustrator
2/21	Typography	Chapter 14	<i>Lab Exercise 6</i> Map Lettering
2/26	TBD	Review Sheet	Map Layouts in ArcGIS
2/28	Exam 1		
3/6	Choropleth Maps	Chapter 7	Choropleth maps in ArcGIS
3/7			<i>Lab Exercise 7</i> Choropleth Maps
3/12	☺ Spring Break ☺		
3/14	☺ Spring Break ☺		

3/19	Dot Maps	Chapter 8	Dot Maps in ArcGIS
3/21			<i>Lab Exercise 8</i> Dot Maps
3/26	Proportional Circle Maps	Chapter 9	Proportional Circle Maps in ArcGIS
3/28	Isarithmic Maps	Chapter 10	<i>Lab Exercise 9</i> Proportional Circle Maps
4/2	Cartograms	Chapter 11	Cartograms in ArcView
4/4	Flow Maps	Chapter 12	<i>Lab Exercise 10</i> Cartograms
4/9	Use of Satellite Images in Maps	TBD	Satellite Images in ArcGIS
4/11	How to Lie with Maps <i>Note: I may be in France this week</i>	TBD	<i>Lab Exercise 11</i> Isarithmic Maps
4/16	Journalistic Maps	Chapter 16 and 17	Large Format Map Production
4/18	Exam 2	Chapter 7 in How to Lie with Maps	
4/23	An Introduction to Geographic Information Systems	Chapter 6	<i>Lab Exercise 12</i> Journalistic Maps
4/25	Future Trends in Cartography		
4/30	Class wrap up		No Lab

I reserve the right to make changes to the course schedule at any time