Dr. Richard Courtney  
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Dept #: 610 683-4364 (34364)  
e-mail: courtney@kutztown.edu  

http://faculty.kutztown.edu/courtney “Course Announcements” ☛Check here daily!

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


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:  

<table>
<thead>
<tr>
<th>Pts. Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>&lt; 50</td>
<td>F</td>
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<tr>
<td>50 - 59</td>
<td>D</td>
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<tr>
<td>60 - 74</td>
<td>C</td>
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<tr>
<td>75 - 89</td>
<td>B</td>
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<tr>
<td>90% +</td>
<td>A</td>
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**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.

**Computer screens are expected to be off during lecture.** Please be courteous and give me your undivided attention during lecture.

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  

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)
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.
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.

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 5 by 4:00 p.m.

*D2L: Desire 2 Learn
<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
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<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt; wk.</td>
<td>Aug. 25</td>
<td>26</td>
<td>27</td>
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<td></td>
<td>27 Intro., Lab Accounts and</td>
<td></td>
<td>29 The Nature of Cartography</td>
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<td>Defining Geography</td>
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<td>2&lt;sup&gt;nd&lt;/sup&gt; wk.</td>
<td>Sept. 1</td>
<td>2 Mon. Sched.</td>
<td>4</td>
<td>5 Earth’s Shape and Coordinates</td>
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<td></td>
<td></td>
<td>No Classes</td>
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<td>6</td>
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<td>3&lt;sup&gt;rd&lt;/sup&gt; wk.</td>
<td>8</td>
<td>9 Map Scale (bring calculator)</td>
<td>11</td>
<td>12 Map Projections</td>
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<tr>
<td></td>
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<td>Ex. 1 Coordinates and Scale</td>
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<td>4&lt;sup&gt;th&lt;/sup&gt; wk.</td>
<td>15</td>
<td>16 Ex. 2 Data Processing and</td>
<td>18</td>
<td>19 Work on Ex. 2</td>
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<td>Display in Excel</td>
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<td>Take home essay out</td>
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<td>5&lt;sup&gt;th&lt;/sup&gt; wk.</td>
<td>22</td>
<td>23 Exam 1</td>
<td>25</td>
<td>26 Map Design and Typography</td>
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<td>6&lt;sup&gt;th&lt;/sup&gt; wk.</td>
<td>29</td>
<td>30 Oct. 1 Introduction to ArcGIS</td>
<td>2</td>
<td>3 Ex. 3 Point Symbol Mapping</td>
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<td>7&lt;sup&gt;th&lt;/sup&gt; wk.</td>
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<td>7 Work on Ex. 3</td>
<td>9</td>
<td>10 Cartographic Generalization and Symbolization</td>
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<tr>
<td>8&lt;sup&gt;th&lt;/sup&gt; wk.</td>
<td>13</td>
<td>14 No Classes</td>
<td>15</td>
<td>16 Graduated Symbols &amp; Dot Maps</td>
<td>18</td>
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<td></td>
<td></td>
<td>15 Geographic Data</td>
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<td>Ex. 4 Graduated Symbols</td>
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<tr>
<td>9&lt;sup&gt;th&lt;/sup&gt; wk.</td>
<td>20</td>
<td>21 Work on Ex. 4</td>
<td>23</td>
<td>24 Final Project Talk</td>
<td>25</td>
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<td>Take home essay out</td>
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<tr>
<td>10&lt;sup&gt;th&lt;/sup&gt; wk.</td>
<td>27</td>
<td>28 Exam 2</td>
<td>30</td>
<td>31 Work on Ex. 5</td>
<td>Nov. 1</td>
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<td>Ex. 5 Dot Mapping</td>
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<td>11&lt;sup&gt;th&lt;/sup&gt; wk.</td>
<td>3</td>
<td>4 Isarithmic Mapping</td>
<td>6</td>
<td>7 Ex. 6 Isoline Mapping</td>
<td>8</td>
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<tr>
<td>12&lt;sup&gt;th&lt;/sup&gt; wk.</td>
<td>10</td>
<td>11 Work on Ex. 6</td>
<td>13</td>
<td>14 Proposals Due!</td>
<td>16</td>
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<td>Choropleth Mapping</td>
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<td>13&lt;sup&gt;th&lt;/sup&gt; wk.</td>
<td>17</td>
<td>18 Class Interval Calculations (bring calculator) Ex. 7 Choropleth</td>
<td>20</td>
<td>21 Work on Ex. 7</td>
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<td>14&lt;sup&gt;th&lt;/sup&gt; wk.</td>
<td>24</td>
<td>25 Map Reproduction</td>
<td>27</td>
<td>28 No Classes</td>
<td>29 No Classes</td>
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<td></td>
<td>Classes</td>
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<td>15&lt;sup&gt;th&lt;/sup&gt; wk.</td>
<td>Dec. 1</td>
<td>2 3 Work on Final Projects</td>
<td>4</td>
<td>5 Final Projects and Map Portfolios</td>
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<td>(All remaining maps due by 4:00)</td>
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<td>Due. Take home essay out</td>
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<td>Finals Week</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12 Final Exam 11:00 a.m.</td>
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Sequence and timing may change, so be aware of announced alterations! Check my home page [http://faculty.kutztown.edu/courtney](http://faculty.kutztown.edu/courtney) and click the link to Course Announcements for updates on any course changes.
## Cartography Grading Chart

<table>
<thead>
<tr>
<th>Exercise Scores and Points</th>
<th>Final Project Proposal &amp; Map Scores &amp; Points</th>
<th>Exam Scores and Points</th>
<th>Project Portfolio Score &amp; Points</th>
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<tbody>
<tr>
<td></td>
<td>Score Out of Pts.§</td>
<td>Score Out of</td>
<td>Score Out of Pts.‡</td>
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<tr>
<td>Ex. 1</td>
<td>Propos.</td>
<td>Exam 1</td>
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<td>Ex. 2</td>
<td>Map</td>
<td>Exam 2</td>
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<td>Ex. 3</td>
<td>Sum</td>
<td>Final</td>
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<td>Ex. 4</td>
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<td>Ex. 5</td>
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<td>Ex. 6</td>
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<td>Ex. 7</td>
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Use the sums for the calculation below.

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<tbody>
<tr>
<td>$\frac{\text{Score}}{\text{Out of}} \times 5$</td>
<td>$\frac{\text{Score}}{\text{Out of}} \times 15$</td>
<td>$\frac{\text{Score}}{\text{Out of}} \times 15$</td>
<td>$\frac{\text{Score}}{\text{Out of}} \times 5$</td>
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</tbody>
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Course Points Structure: 35 Ex. Pts. + 15 Final Project Pts. + 45 Exam Pts. + 5 Portfolio Pts. = 100 points

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