Digital Mapping (GUS 0821): Spring 2016

From Mercator to Mashups

**Instructor**: Dr. Ryan Burns Office hours: Tues/Thurs 12:30-2, by appt.

 Email: ryan.burns@temple.edu Office: 333 Gladfelter Hall

**Meeting Time and Place:** Tuesdays,Thursdays, 2:00-2:50, Gladfelter 0L021

**Lab** sections 10&11: Labaron Palmer Office hours: Thurs 3-4:30 (GH327)

 lpalmer@temple.edu

 Anderson 19, section 10: Tues 3-4:50, section 11: Tues 12-1:50)

 sections 12&13: Yoonhee Jung Office hours: Tues 12-2 (GH327)

 tuf28823@temple.edu

 Anderson 19, section 12: Thurs 3-4:50, section 13: Thurs 12-1:50)

 section 14: Kwesi Daniels Office hours: Thurs 4-5pm (GH327)

 tuf12432@temple.edu

 Anderson 19, 14: Weds, 3-4:50)

***Information on this course, including general information, lecture slides, lab assignments, and other information is available on Blackboard.***

**Purpose of the Course:** The purpose of this course is to teach the general principles of quantitative and qualitative reasoning and spatial literacy through mapping. Topics covered include fundamental principles of mapping, such as projections and coordinate systems, scale and resolution, and spatial patterns and relationships. Mapping techniques such as choropleth mapping and cartograms will also be covered, as will approaches for mapping demographic and environmental phenomena. Emphasis will be placed on the technologies that support digital mapping, including geographic information systems (GIS) and mapping ‘mashups’. At the end of the course, students will think critically about current issues around mapping.

**Prerequisites:** Mathematics placement, a grade of C- or higher in Math 0701 (0045), or transfer credit for Math 0701 (0045).

**Text:** There is no textbook for the course.

**Evaluative Components:**

2 exams @ 12.5 percent each = 25 percent of your final grade

 1 final worth 15 percent = 15 percent of your final grade

 10 labs @ 5 percent each = 50 percent of your final grade

 8 lecture quizzes @ 1.25 percent each = 10 percent of your final grade

**Exams:** Listed on the schedule below are three exams. The first two are *not* cumulative, and will each be worth 12.5 percent of your grade. The final exam *is* cumulative, and is consequently worth more. They will be a combination of multiple choice questions and short answer, and will be closed book/notes.

*Late exam policy***:** You should not be late for an exam. If for some reason you cannot be there, you *must* contact the professor *before* the exam. If you wait until after the exam, you will not be able to make it up.

**Labs:** You have an assigned lab to attend each week, starting the second week of classes. Labs will be made available to you on Blackboard immediately after lecture. Labs will be completed in a standard Word document and submitted to the appropriate folder on Blackboard. They will be due by the beginning of class the following week (thus you have a week to complete it). Labs will be scored out of 50 points. You have 11 labs to complete, but only your best 10 labs will count (your lowest will drop).

*Late lab policy:*Because you have a full lab period plus a week of your own time to finish labs, late work will not be accepted for full credit. If your lab is turned in within 24 hours of the due date (defined as the beginning of class following the one in which it was assigned) then it is still eligible for half credit. Anything turned in after that 24 hour grace period will *not* receive credit.

**Lecture quizzes:** You’ve probably heard the saying: “80 percent of life is just showing up”. Well, in this class, it’s a mere 10 percent. Attendance matters because it’s part of a good academic performance; not coming to class is by definition not being a good student. While attendance will not be taken, there will be quizzes following most lectures. Each quiz will be on something we discussed that class period. They will be open note. Each quiz will be worth 12.5 points. The first 2.5 of those 12.5 points will be given just for your attendance. The next 10 will be for getting the answers correct. Only your best 8 lecture quiz scores will count. There will be 10 quizzes (meaning your lowest 2 drop).

*Missed quiz policy:*Quizzes can’t be made up, even for valid excuses. If you come to class as you should, 2 dropped quizzes should account for whatever occurs during the term necessitating a missed class; if they do not, then you are likely missing too much class. If you have a significant illness or family related emergency, please discuss it with the professor. For an illness or medical emergency, you must have a written medical excuse.

**Grading Scale**:

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| **A** | 92-100 | **B+** | 88-89.9 | **C+** | 78-79.9 | **D+** | 68-69.9 | **F** | <60 |
| **A-** | 90-91.9 | **B** | 82-87.9 | **C** | 72-77.9 | **D** | 62-67.9 |  |
|  | **B-** | 80-81.9 | **C-** | 70-71.9 | **D-** | 60-61.9 |

**Disabilities:**

Any student who has a need for accommodation based on the impact of a disability should contact Disability Resources and Services at 215-204-1280 in 100 Ritter Annex to coordinate reasonable accommodations for students with documented disabilities. Their office will convey your needs to me, but please feel welcome to speak with me privately, as well – my door is (metaphorically) open.

**Well-being:**

College can be stressful, and your mental well-being is important. If you are a student of Temple University, Tuttleman Counseling Services offers you support for your emotional, educational or vocational concerns. Assistance is *confidential* and free of charge. They provide an atmosphere that is informal and professional, where you can feel safe and comfortable seeking help. Find them at 1810 Liacouras Walk (5th floor) or call them at (215) 204-7276.

Your academic advisors can be great advocates for you. While I expect that you will all make an effort to keep me informed if you will be absent, or ask for help if you are struggling, your advisor also can help you find the people at the university that you need to talk to if you have an unexpected life event.

**Academic Dishonesty:**

Academic dishonesty (i.e. cheating on tests, copying another student's assignments, plagiarism, etc.) will not be tolerated. Please refer to this statement for more information on Temple University's Academic Honesty policy: <http://www.temple.edu/pharmacy_qara/plagiarism.htm>. Please feel free to talk with me if such policies are unfamiliar to you.

**Statement on Academic Freedom:**

Freedom to teach and freedom to learn are inseparable facets of academic freedom. The University has adopted a policy on Student and Faculty Academic Rights and Responsibilities (Policy # 03.70.02) which can be accessed through the following link: <http://policies.temple.edu/getdoc.asp?policy_no=03.70.02>

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| Date | Lecture Topic | Lab Topic |
| January 12 | Course introduction; Types, purposes and history of maps | N/A |
| Jan 19 | Map Making Aesthetics | Lab 1: Mental maps  |
| Jan 26 | The Graticule | Lab 2: Mash-ups |
| February 2 | Projections and Distortion | Lab 3: Projections |
| Feb 9 | Scale and Resolution | Lab 4: Scale |
| Feb 16 | Review for Exam I; **Exam I** | No lab |
| Feb 23 | Go over exam I; U.S. Census; Spatial Data | Lab 5: Data Analysis |
| March 1 | Spring break; no classes | No lab |
| Mar 8 | Kinds of Thematic Maps; Choropleth Maps | Lab 6: Census I |
| Mar 15 | Correlations and Global Data | Lab 7: Web Apps |
| Mar 22 | Review for Exam II; **Exam II** | No lab |
| Mar 29 | AAG conference; no lectures; **labs still meet** | Lab 8: Policy Map |
| April 5 | Remote sensing and Google Earth | Lab 9: GIS |
| Apr 12 | Go over exam II; Quantitative Literacy | Lab 10: Story Map A |
| Apr 19 | Mapping and Society: Surveillance, digital humanitarianism | Lab 11: Story Map B |
| Apr 26 | Study day (class does not meet) | No lab |
| Apr 28 | **Final Exam (1:00pm)** | N/A |