Geography 307

Digital Cartography

Course Description
The course provides a general introduction to digital cartography and map making. Principles of cartographic generalization, cartographic symbolization, graphic variables, and thematic mapping methods are covered. Students will be introduced to basic functions of the graphics software Adobe Illustrator and will create their own thematic maps by following the (digital) map compilation process.

Instructor
Dr. Julia Siemer

Office
CL 329, Tel: 585.4405, e-mail: julia.siemer@uregina.ca

Office Hours
Monday, Wednesday 9:00 am–11:30 am or by appointment

Textbook

Other recommended reading

Available at Archer Library

URCourses
Selected course materials will be made available on URCourses. Check also the calendar on URCourses for updated class information. If you choose to use a personal e-mail account for communication, please forward your U of R e-mails to this account. Please specify meaningful subjects for all e-mails.

Lecture Time
Tuesday, Thursday (Jan 08–Jan 24): 10:00 am–11:15 am: CL 312
Tuesday, Thursday (Jan 29–Apr 11): 10:00 am–11:15 am: CL 330.2

Prerequisites
GEOG 207 or permission of department head
Other materials
USB flash drive for lab materials and assignments

Attendance policy
Attendance at all times is recommended. Attendance at Illustrator sessions is mandatory.

Evaluation
Illustrator map 1 (required) 10%
Illustrator map 2 (required) 10%
Illustrator map 3 (required) 10%
Illustrator map 4 (required) 10%
Illustrator map 5 (required) 10%
Illustrator map 6 (required) 15%
Final mapping project – proposal (required, due: Mar 21, 2013) 5%
Final mapping project – map (required) 25%
Final mapping project – report (required) 5%
(due date of final mapping project: April 18, 2013) 100%

Tentative topics of thematic mapping assignments
Map 1: Population in Europe (8.5 x 11)
Map 2: Population in Berlin (8.5 x 11)
Map 3: Education in Canada (8.5 x 11)
Map 4: Canadian Diversity (8.5 x 11)
Map 5: Migration to/within the Canadian Prairies (8.5 x 11)
Map 6: Any topic and mapping technique of your choice (8.5 x 11)

Final mapping project: Any topic and mapping technique of your choice (up to poster size); you are required to submit a written proposal which briefly discusses the anticipated topic, mapping technique, data sources (thematic and base data), as well as other maps of the same topic and applying the same/similar mapping technique and further references.

Note
Students of this course are strongly encouraged to submit their final mapping projects or Map 6 to the mapping competition of the Canadian Cartographic Association (CCA) at its annual meeting in Edmonton in spring of 2013. More information can be found at: www.cca-acc.org

Knowledge and Effort
This course requires computer file management skills and the ability to work within a Windows computer environment without assistance. Students are expected to spend considerable time developing thoughtful products, as well as conducting limited research to feed into their written and thematic mapping assignments. Students must demonstrate a mature, professional, and conscientious effort toward class work and participation.
In addition to class hours, students should expect an average weekly work-load of 1 hour for readings and up to 3 hours of individual (computer) work (depending on previous experience with Adobe Illustrator or similar products).
### Late assignments and examinations

**All assignments, projects and exams are required.** A missed or late **missed** assignment or exam results in a grade of NP for the course. Due dates for assignments will be specified. **Assignments or projects that are submitted late will be penalized 10% per day** (including weekends, starting with the due day). Assignments/labs or project components submitted **more than 3 days late are not accepted** and result in a grade of NP for the course. A missed exam can normally not be written at a later time.  
(See also section Accommodations)

### Accommodations

Any student with a disability who may need accommodations should discuss these with the course instructor after contacting the Coordinator of the Disability Resource Office at 585-4631.  
If you are **unable to complete an assignment, midterm examination or components of the final project** for compassionate or health reasons, contact the instructor **as soon as possible**. A medical certificate from an attending physician must accompany the request if the reason is medical. For other reasons, such evidence as is appropriate should be provided.

### Recording of lectures

Students must be aware of two issues regarding audio, image or video recording of lectures. First, a lecture/lab is considered the intellectual property of the instructor, and copyright guidelines and regulations apply to the recording of lectures. Second, there is a need to protect the privacy of students in the class from being recorded without their knowledge and permission. As such, **students in this course may not create recordings of any kind in this class**. Any student creating unauthorized recordings will be subject to disciplinary action under §5.13 of the Undergraduate Calendar.

Students requiring recordings as an accommodation for a disability, and who have documentation from the Centre for Student Accessibility, are exempted from this restriction. Students in this position must speak to the instructor prior to recording lectures, and any such recordings are solely authorized for the purposes of individual study. Permission to allow this type of recording is not a transfer of any copyrights in the recording, and the recording may not be reproduced or uploaded to publicly accessible web environments.
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lecture Topic</th>
<th>Required Readings (p)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 08</td>
<td>Introduction to the course, policies, assignments</td>
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<td></td>
<td>Jan 10</td>
<td>Map characteristics</td>
<td>1-12</td>
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<tr>
<td>2</td>
<td>Jan 15</td>
<td>(Topographic) base data, thematic data, data acquisition</td>
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<td></td>
<td>Jan 17</td>
<td>Map design I: principles of symbolization, cartographic generalization</td>
<td>76-85, 96-112</td>
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<td>3</td>
<td>Jan 22</td>
<td>Map design II: cartographic design, legends</td>
<td>211-231, 188-209</td>
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<td></td>
<td>Jan 24</td>
<td>Thematic mapping techniques: choropleth maps, dot distribution maps, proportional/range-graded symbol maps, isarithmic maps</td>
<td>251, 268-269, 281, 299-300, 302, 324-325</td>
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<td></td>
<td></td>
<td>Final mapping project will be handed out</td>
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<tr>
<td>4</td>
<td>Jan 28</td>
<td>Cartography lab - CL 109; Adobe Illustrator Intro</td>
<td>Tutorial</td>
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<tr>
<td></td>
<td>Jan 30</td>
<td>Cartography lab - CL 109; Adobe Illustrator Intro</td>
<td>Tutorial</td>
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<tr>
<td>5</td>
<td>Feb 05</td>
<td>Cartography lab - CL 109; Map 1 handed out; Mapping technique: choropleth map</td>
<td>Tutorial</td>
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<td></td>
<td>Feb 07</td>
<td>Cartography lab - CL 109; Map compilation process</td>
<td>231-250</td>
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<td>6</td>
<td>Feb 12</td>
<td>Cartography lab - CL 109; Map 1 due; Map 2 handed out; Mapping technique: proportional/range graded symbol map</td>
<td>Tutorial</td>
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<td></td>
<td>Feb 14</td>
<td>Cartography lab - CL 109; Mapping and colours</td>
<td>173-182</td>
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<td>7</td>
<td>Feb 19</td>
<td>Reading week</td>
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<td>Feb 21</td>
<td>Reading week</td>
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<td>8</td>
<td>Feb 26</td>
<td>Cartography lab - CL 109; Map 2 due; Map 3 handed out; Mapping technique: choropleth map in combination with diagrams</td>
<td>Tutorial</td>
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<td></td>
<td>Feb 28</td>
<td>Cartography lab - CL 109; Map discussion</td>
<td>Tutorial</td>
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<td>9</td>
<td>Mar 05</td>
<td>Cartography lab - CL 109; Map discussion</td>
<td>Tutorial</td>
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<td></td>
<td>Mar 07</td>
<td>Cartography lab - CL 109; Map 3 due; Map 4 handed out; Mapping technique: multivariate map</td>
<td>Tutorial</td>
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<td></td>
<td>Mar 12</td>
<td>Cartography lab - CL 109; GIS and maps</td>
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<td>Mar 14</td>
<td>Cartography lab - CL 109; Map discussion</td>
<td>Tutorial</td>
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<td>10</td>
<td>Mar 19</td>
<td>Cartography lab - CL 109; Map 4 due, Map 5 handed out; Mapping technique: flow map</td>
<td>Tutorial</td>
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<td>Mar 21</td>
<td>Cartography lab - CL 109; Map discussion; Proposal for final mapping project due</td>
<td>Tutorial</td>
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<td>11</td>
<td>Mar 26</td>
<td>Cartography lab - CL 109; Map 5 due, Map 6 handed out; Mapping technique: any technique</td>
<td>Tutorial</td>
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<td>Mar 28</td>
<td>Cartography lab - CL 109; Map discussion</td>
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<td>12</td>
<td>Apr 02</td>
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<td>Tutorial</td>
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<td>Apr 04</td>
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<td>Tutorial</td>
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<td>13</td>
<td>Apr 09</td>
<td>Cartography lab - CL 109; Consultation final project</td>
<td>Tutorial</td>
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<td></td>
<td>Apr 11</td>
<td>Cartography lab - CL 109; Consultation final project</td>
<td>Tutorial</td>
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* subject to change, check URCourses for up-dates
Announcements for Students in Faculty of Arts Courses, Winter 2013

Academic Regulations
You are responsible for understanding and following the relevant academic regulations outlined in the Undergraduate Calendar. The most important of these are summarized in section 5.1, “Responsibilities of Students”. I strongly urge you to read this section at your earliest convenience. Every year some of our students lose money or academic credit because they overlooked one or more of the university’s rules; don’t let this happen to you.

Academic Misconduct
You are responsible for knowing all of the formal definitions of plagiarism, cheating and other forms of Academic Misconduct, as specified in section 5.13.2 of the Undergraduate Calendar. You will not be able to excuse academic misconduct by arguing that you didn’t know it was misconduct. If you are unsure, check with your instructor beforehand. When you hand in assignments, it will be assumed that you handed in the version you intended to hand in. We will not under any circumstances accept the excuse that you ‘accidentally’ handed in the wrong file. The Faculty of Arts will vigorously pursue all suspected cases of academic misconduct; the penalties for it include indefinite expulsion from the University.

Procedures and Dates for Dropping Courses
If you want to withdraw from a class without academic penalty and/or with a refund, you must make a formal request to this effect before the relevant deadline. You won’t automatically be withdrawn just because you stop attending classes. Students who are no longer attending classes but have not formally withdrawn are still considered to be registered, will not have their fees refunded, and will be assigned a failing grade of NP for the course. Please consult section 1.2.1 of the Undergraduate Calendar for refund deadlines.

It is Faculty of Arts policy that “Faculty teaching undergraduate courses will return graded assignments and/or exams worth at least 20% of the overall mark before the deadline for students to withdraw from a class with a grade of W. This principle will be waived only when implementation clearly would be impractical, such as for an honours thesis course."

Procedures for Requesting Deferrals of Final Exams or Term Work
If for reasons beyond your control (such as illness, accident, or a death in the family) you become unable to complete your term work or final exams, please contact the Student Services Office of your Faculty or College as soon as possible for advice about getting your course work deferred. The procedures for deferrals are outlined in section 5.7 of the Undergraduate Calendar.

Cancelled Classes
When instructors can’t make a given class, they are to inform their department, which will post a sign outside the classroom that day notifying students that the class is cancelled. If an instructor does not come to class and no notice has been posted, please contact the relevant department office.

University Email Accounts
You should check your University of Regina email account regularly because the University will send any official correspondence to that address. You can easily have your University email forwarded to a commercial account like Hotmail by using following the instructions at http://www.uregina.ca/is/student/email/index.html. If you do so, however, be sure to check your junk folder for the first while, since some commercial email accounts classify University-originated emails as junk.

Personal Information
Please be sure to update your personal information at the beginning of each semester (address, telephone number, etc.) online if anything has changed.

Special Needs
Any special-needs students requiring accommodations in the classroom must first contact the Coordinator of the Centre for Student Accessibility - formerly the Disability Resource Office at 585-4631 and then arrange to meet with the course instructor. A statement of the Faculty’s policies and procedures for special needs students can be obtained from the Student Services Office in CL 411 or at http://www.arts.uregina.ca/current-students/new-students/special-needs.
University Harassment and Discrimination Prevention Policy
All members of the University community are entitled to a professional working environment, free of harassment and discrimination. See section 8.4.6 of the Undergraduate Calendar for details.

Early Referral Program
Faculty of Arts students may participate in a student support initiative, Early Referral Program. Students may face challenges in undertaking course work and there are many resources available on campus that can provide assistance. If your instructor feels that you may benefit from additional support, he/she may forward your name and you will be contacted and offered an appointment with an advisor. Refer to http://www.uregina.ca/ssc/earlyreferral.shtml for more information.

Final Approval of Grades
All course grades are subject to final approval by the Associate Dean (Undergraduate).

Recording of Classes
Unauthorized video- or audio-recording of classes is not permitted. If you are given authorization to record class proceedings by the Student Accessibility Office and the instructor, you may use such materials for private study only. You may not lend the material to other students, and you must destroy it when the class ends.

Faculty of Arts Code of Classroom Conduct

Things not to do in the classroom

1. Arrive after the class is scheduled to begin.
   • You’re distracting your fellow students from their note-taking. If there are in-class exercises or group discussions, your late arrival can throw off the allocation of tasks upon which the instructor settled before you arrived.

2. Leave before the class is over (or at least before it is scheduled to end).
   • Unless you’ve previously explained the situation, your instructor may think your departure is a comment on the class itself. If fellow students are scheduled to present later in the hour, they’ll hardly find your early exit flattering.

3. Engage in side conversations with your fellow students.
   • You’re publicly declaring that you’re bored and have better things to do with your time than listen to your instructor. Polite people find a way to conceal their boredom. It also makes life difficult for the students around you who do want to hear what the instructor has to say.

4. Text your friends and relatives.
   • This is just another form of side conversation.

5. Let your cell phone ring or, worse still, take a call.
   • Your classmates may laugh the first time your phone rings in class. But they won’t be so amused the next time. And you don’t want to know what they’ll be thinking if you go so far as to hold a conversation in the classroom. If you’re expecting an important call, let your instructor know in advance, leave the phone on vibrate, and exit the room before taking the call.

6. Use your laptop for purposes unrelated to the class.
   • The success of a class depends not just on what the instructor does and says, but also on how well the students listen and interact. If everyone followed your example, the class would be a disaster for all involved. If you plan to take notes on your laptop, think about sitting at the back of the classroom, where typing won’t be as distracting for other students.

I wish you an enjoyable and successful semester.

Cameron Louis, Associate Dean (Undergraduate)