

# Geography 260: Introduction to Cartography - Map Conceptualization & Development

Instructor: Dr. Keith Rice

Class Assistance: only by appointment (use e-mail for scheduling)

Office Number : Science B-307

e-mail address: [krice@uwsp.edu](mailto:krice@uwsp.edu)

This course is an examination of map use, creation and production. We will start with an exploration of how we *use* maps and then we'll investigate the complete *map making* process from the need to create a map through the cartographic development and production phases. First the student will assume the role of *map reader* as we examine map uses and types, then the student will be the *map-author*--the person who conceives and creates the map while manipulating the final stages of the map's production. The rationale for the map and its graphic structure will be studied, spatial data will be gathered and organized, the layout and specifications developed, and final maps created.

A spectrum of map types (e.g. thematic, reference) and different map formats (e.g. paper vs. digital, presentation, size, structure) will be examined, extending from maps of small local areas to large national regions. Each will be examined in the context of its purpose, design, information content, and communication effectiveness.

Lectures: Lecture sessions (Science B-338) will be on Tuesday and Thursday mornings and will concentrate on, and emphasize key conceptual and theoretical considerations that will lay the groundwork for the laboratory project of the week.

Text: **Thematic Cartography & Geographic Visualization**, 2<sup>nd</sup> edition  
by Terry A. Slocum, Robert B. McMaster, Fritz C. Kessler and Hugh H. Howard,  
Prentice-Hall, 2005 [*Text Rental Book*]

*.pdf excerpts* from **Elements of Cartography**, 6th edition, by Arthur Robinson, Joel Morrison, Phillip Muehrcke, Jon Kimerling, and Stephen Guptill.  
(these are located in your Geography 260 class server directory – see server instructions)

Lab Manual: Geography 260 Laboratory Manual – 2020 Edition

Laboratories: All labs will be conducted in an online environment. You will need to use the desktop computers in B-308 in-person or online through UWSP's Online Access Lab system. This is not the normal GIS Lab computer environment. In the Online Access system you will need to log on to one of the computers in B-308 or B-312. Please refer to your Remote Access - GEO Labs Online instructions. You can logon to one of these computer lab workstation from your home, residence hall room or anywhere on the campus wireless network. Our remote computer lab allows you access to software that is only available in computer labs.

Each lab (either Tuesday or Thursday section) will deal with a mapping situation, operation or production problem. There will be 11 laboratory projects, each counting between 4 to 7 percent of your final grade, for a total of 58 percent of the grade for the course. The requirements for each laboratory project are outlined in detail in material that is in your class lab manual. The resources provided may also include supplementary information about key concepts and procedures which are not covered in the textbook.

Most labs can be completed within three hours, but a few will likely take twice as much time. Some projects are self-contained, a few are linked to later projects. Laboratory projects should be completed and handed in on or before the due date indicated in the exercise. Similarly, readings should be completed before the class session for which they are assigned. Since lecture, laboratory assignments, and readings are highly integrated, close attention should be paid to completing the assignments on time.

All lab assignments will be delivered to the instructor in digital form on the class server system. Each student will have their own personal server directory for the class and every lab will have its own subdirectory and a location ("Finished Lab") folder for completed assignments.

**Readings:** A separate handout will detail the reading assignments for the semester from the textbook and selected readings from a compendium text (pdf excerpts). Each article from the text below will be identified by its book editor and page numbers.

**Examinations:** There will be two examinations, a mid-term on October 29<sup>th</sup>, covering the first eight weeks of the course, and a final comprehensive exam (**Thursday, December 17, 2:45 – 4:45pm**). The **mid-term** will be composed almost exclusively of multiple-choice questions, focusing not only on basic concepts, principles, and definitions, but also on the applications of these concepts and principles to the solution of mapping problems. It will count 20 percent of the final grade. The **final** will count 22 percent of your grade; it will focus on the cartographic process as a whole, particularly on the development of solutions to specific mapping problems. The final exam format will be multiple-choice, and matching questions.

**Evaluation & Grading:**

	<b>Maximum Points</b>
Laboratories (eleven total, 4 -7 points apiece)	58 points
Midterm Exam	20
Final Exam	22
 Total	 100 points

Ranges of percentage scores, exam points, course points, and their approximate equivalent letter grades are shown below. By referring to this table you can determine your letter-grade standing at any point in the course.

<u>Percent</u>	<u>4 Pt Lab</u>	<u>5 Pt Lab</u>	<u>6 Pt Lab</u>	<u>7 Pt Lab</u>	<u>Course Pts.</u>	<u>Letter Grade</u>
93-100	3.8	4.7	5.6	6.5	93	A
90	3.6	4.5	5.4	6.3	90	A-
87	3.5	4.4	5.2	6.1	87	B+
83	3.3	4.2	5.0	5.8	83	B
80	3.2	4.0	4.8	5.6	80	B-
77	3.1	3.9	4.6	5.4	77	C+
73	2.9	3.7	4.4	5.1	73	C
70	2.8	3.5	4.2	4.9	70	C-
67	2.7	3.4	4.0	4.7	67	D+
63	2.5	3.2	3.8	4.4	63	D
<63	<2.5	<3.2	<3.8	<4.4	<63	F

**Student Rights and Responsibilities:** Please make note of the following web-based pdf documents, that explains your responsibilities and rights within the UWSP campus community, including required behavior by students and faculty within the classroom environment:

<https://www.uwsp.edu/dos/Documents/UWSP14-Final2019.pdf>

[https://www.uwsp.edu/dos/Documents/2015\\_Aug\\_AcademicIntegrityBrochure.pdf](https://www.uwsp.edu/dos/Documents/2015_Aug_AcademicIntegrityBrochure.pdf)

<https://www.uwsp.edu/dos/Documents/CH17-UWSP-Updated2019.pdf>

**COVID-19 Safety Measures and Requirements:**

We need to take extra precautions, as outlined in our the UWSP return-to-campus guidelines. Face coverings, physical distancing, hand-washing and daily symptom monitoring are essential for everyone. Extra cleaning, disinfecting, directional signage, reduced capacity in classes, labs and meeting rooms are the norm.

At all UW-Stevens Point campus locations, the wearing of face coverings is mandatory in all buildings, including classrooms, laboratories, studios, and other instructional spaces. Any student with a condition that impacts their use of a face covering should contact the Disability and Assistive Technology Center to discuss accommodations in classes. Please note that unless everyone is wearing a face covering, in-person classes cannot take place. This is university policy and not up to the discretion of individual instructors. They are mandatory based on the advice of medical professionals because, combined with physical distancing and other measures, they help protect both the health of others and the person wearing the face covering. By university policy, your instructor is not allowed to begin class unless everyone is wearing a face covering. Failure to adhere to this requirement could result in formal withdrawal from the course. If someone is not wearing a face covering (nose and mouth) they will be provided a covering (if one is available).

You are also required to maintain a minimum of 6 feet of physical distance from others whenever possible. Your instructor does not have normal 'office hours' since students cannot enter instructor's offices (due to social distancing space and ventilation issues). Please e-mail your instructor outside of class hours if help is needed in an assignment.

**Attendance:** Although class attendance records will not be kept for grading purposes, it is strongly urged that class sessions not be missed. Past records have shown that students who have inordinate attendance lapses have never been able to complete the course on time. HOWEVER, if a student feels ill or you have been exposed to COVID-19 DO NOT come to class. Use the UWSP screening tool to check your wellness each day - email your instructor and contact Student Health Service (715-346-4646) if you meet any of these situations. As with any type of absence, students are expected to communicate their need to be absent and complete the course requirements as outlined in the syllabus.

Attendance will be taken on the 1<sup>st</sup> and 8<sup>th</sup> week of the semester in order to comply with federal financial aid Title IV legislation attendance. UWSP Financial Aid Office is required by Federal law to retract financial aid for students that do not complete at least 60% of the semester for which they were awarded financial assistance. The mandated retraction formula uses the last date of attendance as a factor in determining the percentage of financial aid that must be returned to the U.S. Department of Education (DOE).

### **Accommodations for Students with Disabilities:**

UWSP is committed to providing reasonable and appropriate accommodations to students with disabilities and temporary impairments. If you have a disability or acquire a condition during the semester where you need assistance, please contact the Disability and Assistive Technology Center on the 6th floor of Albertson Hall (library) as soon as possible. DATC can be reached at 715-346-3365 or DATC@uwsp.edu.

### **Student Recording and Sharing Class Lecture**

Lecture materials and recordings for Geography 260 are protected intellectual property at UW-Stevens Point. Students in this course may use the materials and recordings for their personal use related to participation in this class. Students may also take notes solely for their personal use. If a lecture is not already recorded, you are not authorized to record my lectures without my permission unless you are considered by the university to be a qualified student with a disability requiring accommodation. [Regent Policy Document 4-1] Students may not copy or share lecture materials and recordings outside of class, including posting on internet sites or selling to commercial entities. Students are also prohibited from providing or selling their personal notes to anyone else or being paid for taking notes by any person or commercial firm without the instructor's express written permission. Unauthorized use of these copyrighted lecture materials and recordings constitutes copyright infringement and may be addressed under the university's policies, UWS Chapters 14 and 17, governing student academic and non-academic misconduct.