

GIS 100: Foundations of Spatial Thinking

Schedule:	M - W 1:15 PM – 2:30 PM
Location:	Larsen Hall 227
Instructor:	Dr. Steven Moore , Director of Government Programs and Human Subjects Research steven_moore@redlands.edu Teams Chat
Office Hours:	Use my booking page to make appointments.
Office and Phone:	Administration Building 312, (909) 748-8687
Text:	Marshall, Tim. (2015). <i>Prisoners of Geography: Ten Maps That Explain Everything About the World</i> .

COURSE DESCRIPTION

The goal of this class is to equip you to be a spatial problem solver and storyteller. During the term, we will explore how and why we map things, how a sense of place is created, why all maps and other data visualizations are biased, how to effectively and responsibly make maps and other data visualizations; how to help solve local, regional, and global problems with spatial thinking; and how to tell stories with maps.

COURSE SCHEDULE AND ANNOUNCEMENTS

The course schedule and due dates for all assignments are posted in Canvas. Announcements will also be posted to Canvas.

EXPECTATIONS

To become a better spatial thinker, spatial problem solver, and communicator of spatial ideas, you need to authentically engage with the planned activities, readings, and discussions. I expect you to read the assignments and grading rubrics carefully. I also expect you to ask questions if you are unclear about what is expected for an assignment.

Complete all assigned work on time! Most of the assignments are designed to prepare you to participate in class. If you don't complete assignments on time, you cannot participate in class activities, and I cannot give you full credit for your work.

Generative AI

In this course, we will discuss how to use AI ethically. We'll talk about how generative AI might be used, how to cite it, risks of using it for that project, and what contributions and ideas you will be personally responsible for. From outlines, to drafts, to feedback on drafts, we'll consider how we want to use generative AI and how we want to integrate our own ideas, course discussions and questions, course readings, and other approved sources. Using generative AI in ways outside what we agree to as a class for any assignment will be considered a violation of the university's academic honesty policy.

GRADED ASSIGNMENTS

Attendance

Attendance in class is required.

- Present or Excused Absence: Full attendance credit. For an absence to be excused, I must be notified in advance of the class to be missed.
- Late: 50% full attendance credit
- Unexcused Absence: No attendance credit

Up to 50 points of attendance credit will be counted towards your course grade. That's 11% of your course grade.

Assignments:

You are asked to complete 26 assignments during the term. The assignments are designed to foster hands-on application of concepts and skills used by mapmakers of all sorts. I will give you the opportunity to at least begin most of these investigations in class. Some are due during the class session in which they are started or the next class session. My goal is to use the investigations to discuss key concepts and skills employed in mapmaking and other kinds of data visualization. The Assignments total up to 370 points, so they represent 78% of your course grade.

Spatial Topic Presentation

As the class proceeds this term, we will discuss papers and other resources that present key concepts in spatial reasoning and data visualization. Instead of me presenting this material, I'm asking you to do so. The presentation assignments total 50 points, so they represent 11% of your course grade.

GRADING

Each assignment will be graded according to a rubric. If all listed tasks are accomplished adequately, 100% credit is awarded. On-time submissions receive 100% credit. Ten percent is deducted from your grade by Canvas for each day a submission is late down to a minimum grade of 50%. If you miss a class and an assignment is due, it is your responsibility to make sure the assignment is submitted before the due date and time. Full credit will not be awarded for late submissions unless arrangements have been made before the due date and time.

GRADING BREAKDOWN

Component	Percent of Final Grade
Attendance	11
Assignments	78%
Spatial Topic Presentation	11%
Total	100%

GRADING CRITERIA

The University of Redlands uses a numeric grading system, in which 4.0 corresponds to an A, 3.7 to an A-, 3.3 to a B+, 3.0 to a B, 2.7 to a B-, 2.3 to a C+, 2.0 to a C, 1.7 to a C-, 1.3 to a D+, 1.0 to a D, a 0.7 to D-, and a 0.0 to an F. These grades correspond to the following:

90 – 100% 423-470 pts	3.7, 4.0	A: Outstanding	Exceptional grasp of the material, frequently with evidence of intellectual insight and original thought.
80 – 89% 376-422 pts	2.7, 3.0, 3.3	B: Excellent	Work demonstrated a thorough grasp of the material with occasional errors and omissions. Assignments were thoroughly and completely done, with careful attention to detail and clarity, and with evidence of intellectual insight.
70 – 79% 329-375 pts	1.7, 2.0, 2.3	C: Acceptable	Quality of the work was acceptable, meeting minimal course standards, but not exceptional. Performance on examinations and other assignments was satisfactory and demonstrated that the student was keeping up with the material and attending to detail.
60 – 69% 282-328 pts	0.7, 1.0, 1.3	D: Poor	Quality of work was not always satisfactory, but overall was passing. Assigned work was not always done, and when done was inadequate. Performance on examinations and other work was generally weak with regard to understanding of subject, proper formulations of ideas, and thoroughness.
Below 60% <282 pts	0.0	F: Failing	"F" indicates that the student failed the course. The quality and quantity of work was not of college level. A failing grade may be assigned for a variety of reasons such as failure to complete course requirements as outlined in the syllabus, inability to comprehend course material or ineptitude in dealing with it, consistently unsatisfactory performance on examinations and/or assignments, or excessive absences.

I: Incomplete. An "incomplete" is not given for poor or neglected work. A grade of "incomplete" is to be granted only for very special reasons and should occur only after a discussion between faculty and student, initiated by the student. The decision of whether to grant an incomplete is dependent on an emergency that prevents the student from completing (on time) the work necessary for the course. An incomplete grade will be converted to a permanent grade within eight weeks from the last session of the course. This means that the instructor must turn in the grade to the Registrar no later than the eighth week. Any incomplete work must be submitted to the instructor with enough lead time for the instructor to evaluate the work and issue a final change. See the University of Redlands Catalog for more guidance.

W: Withdraw. Student officially withdraws from the course. A student who stops attending the course may be administratively withdrawn and issued a grade based on the amount of work completed for the entire course, not a pro-rata grade based on the completion of work done up to the point the student stopped attending. See the University of Redlands Catalog for more guidance.

CANVAS COURSE WEBSITE

All assignments will be submitted and graded via Canvas. Accordingly, you can also check your grades and keep track of your process in the Canvas gradebook. Please contact me if you have a question about how grades have been recorded in the gradebook.

PARTICIPATION

Active participation in the class is expected. To facilitate class participation, you will be encouraged to comment on and discuss your own and other students' work. You will also be encouraged to relate concepts to your own personal life, as well as to current events.

STUDENT LEARNING OUTCOMES:

The purpose of this course is to introduce students to spatial problem solving and spatial storytelling. Thoughtful participation in this class should encourage accomplishment of the following student learning outcomes:

1. Understand basic elements of human spatial cognition.
2. Understand and apply spatial vocabulary.
3. Create maps and visualizations with of data.
4. Make good maps and critique the quality of other's maps.
5. Practice and model ethical map making.
6. Solve problems with spatial thinking strategies.
7. Tell stories with maps to professional and lay audiences.

See specific learning outcomes for each course module.

TECHNOLOGY

You will need a good Internet connection and reasonably good device (e.g., desktop, laptop, or tablet) to participate in this class. Campus computing facilities can be used to complete mapping assignments and to submit assignments via Canvas. At times, access to a mobile device will be helpful in completing an assignment. In such cases, if you do not have access to a mobile device, I will provide a workaround for you.

RELEVANT POLICIES AND RESOURCES**ACCOMMODATIONS**

If you are a student with a disability requesting reasonable academic accommodations in this course, please contact Academic Support and Accessibility (ASA). ASA is located in the Student Success Center on the ground floor of the Armacost Library. You can reach the office at 909-748-8069 or asa@redlands.edu. All requests for reasonable accommodations require registration with ASA in advance of need. Faculty, students, and ASA will work together regarding classroom accommodations. You are encouraged to discuss approved accommodations with your faculty. More information is available on the [acessibility webpage](#).

OFFICE OF EQUITY AND TITLE IX

To provide a safe and equitable learning environment for all students, faculty, and staff, discrimination, harassment, retaliation, sexual misconduct, and sexual harassment (including sexual assault, dating or domestic violence, and stalking) are not tolerated at the University of Redlands. The University prohibits unlawful discrimination or harassment (as defined in the [Policy Prohibiting Discrimination, Harassment, Sexual Misconduct, and Retaliation](#)) on the basis of age, color, race, ethnicity, national origin, ancestry, sex, marital status, pregnancy, status as a complaining party of domestic violence, sexual orientation, gender,

gender identity or expression, physical or mental disability, genetic information, religion/creed, citizenship status (except to comply with legal requirements for employment), military/veteran status, or any other characteristic protected by law. If you or someone you know has experienced or experiences any of these behaviors, know that you are not alone. You can contact the Office of Equity and Title IX for reporting options, supportive measures, and resources to support you.

Many faculty and staff at the University of Redlands are considered “Responsible Employees,” which means that if you tell me about a situation involving any of the above, I must report the matter to the Office of Equity and Title IX. Although I make that report, you are in control of how you would like to proceed, including whether or not you wish to pursue a formal complaint. Our goal is to make sure you are aware of the range of reporting options available to you and have access to the support and resources you need.

To report an incident directly, you can:

- Contact the Interim Director of Equity & Title IX, Christopher Jones, at 909-748-8289 or titleix@redlands.edu
- Report online at: <https://www.redlands.edu/offices-directory/offices/office-of-equity-and-title-ix>

You can also report to local law enforcement at 909-798-7681, ext. 1. If you are ever in immediate danger, please call 911 or email/text 911@redlandspolice.org if you cannot call.

To reach Public Safety on campus, call 909-748-8888 or use the [Rave Guardian](#) app.

If you wish to speak to someone confidentially (meaning not connecting with the Office of Equity and Title IX Office), you can contact the following resources:

Campus:

[Counseling Center](#): 909-748-8108 or 24-Hour Crisis Line: 909-748-8960
[TimelyCare](#), 24/7 emotional support; 12 free telehealth counseling sessions

Community:

[Partners Against Violence](#), 24-hour sexual assault crisis line: 909-885-8884
[Option House](#), 24-hour dating/domestic violence crisis line: 909-381-3471

Online:

<https://www.rainn.org/> (sexual assault);
<https://www.loveisrespect.org/>

For more information, visit www.redlands.edu/titleixandequity

WRITING TUTORING

Peer writing tutoring is available in-person and online throughout the semester. You can visit a tutor at multiple stages of your writing process for each project/ assignment/ essay/ etc. You and your tutor can have a brainstorming conversation if you aren't sure where to begin, and you can continue to meet throughout your drafting and revision process. Please note that tutors can assist with writing in ALL disciplines, not just the humanities.

You can schedule a tutoring session at <https://redlands.mywconline.com>.

You can contact the office of Academic Support and Accessibility at asa@redlands.edu or call 909-748-8069 if you have any questions. They're happy to help any time!

Subject Tutoring

Peer subject tutoring is available in-person and online throughout the semester for many courses. You can select your specific course when you log in to the Subject Tutoring Fall 2024 schedule at <https://redlands.mywconline.com>. Select the tutor and time of your choice. All tutors are students who have taken the same course, often with the same instructor. You will need to book your tutoring session at least one day in advance and provide details about what you would like to work on to allow your tutor enough notice and preparation time.

You can meet with your tutor as little or as often as you'd like, up to two hours per week per course.

Students at the UoR use tutoring to work on all academic goals, from better understanding difficult concepts to achieving a 4.0. Tutoring is individualized to each student.

You can contact the office of Academic Support and Accessibility at asa@redlands.edu or call 909-748-8069 if you have any questions. They're happy to help any time!

COUNSELING CENTER

The Counseling Center provides free and confidential mental health services, including short-term individual therapy, group therapy, single-session therapy, consultations, and urgent appointments to all students with in-person or virtual options. Our Counseling Center is committed to inclusivity and to providing a supportive space for everyone. Please call 909-748-8108 to schedule an appointment or email counseling_center@redlands.edu. If a student is in crisis, please call 909-748-8960 for the 24/7 mental health crisis line. For more information on our resources, go [here](#). Another option for individual therapy for all students is [TimelyCare](#), which provides virtual therapy immediately (Talk Now) or up to 12 scheduled virtual therapy sessions per year. Students can choose their therapist from a list of providers for the scheduled therapy option.

CARE TEAM

The University [CARE Team](#) exists to help provide support and resources to students that are overwhelmed, experiencing significant distress, or possibly present some risk to themselves or others. As a faculty member, I may reach out to students about whom I am concerned to talk individually, and/or refer them to the CARE Team. If you have concerns about a fellow student, consider sharing your concern with the CARE Team via their [online form](#). This is part of who we are as a caring, proactive community where we all look out for one another. Additionally, if you feel that you or someone else needs immediate mental health support, the University has a 24/7 mental health crisis line at [909-748-8960](#), and the [Timely Care](#) app, which offers on-demand emotional care. Both services connect to a live, licensed counselor.

EMERGENCY STUDENT LOANS:

Student Financial Services (SFS) administers a short-term, no-interest loan fund to assist students experiencing an emergency or cash-flow problem. Except in unusual circumstances, these loans do not exceed \$200 and are billed to the student's account. Evidence of repayment ability is a prerequisite for all short-term loans made to students. Students are eligible one emergency student loan per term.

Contact: SFS@redlands.edu or x8047

STUDENT FOOD SUPPORT PANTRY:

The Student Food Support Pantry is a resource available to all established full and part-time University of Redlands students facing food insecurities. The Pantry is located on the north side of North Hall (look for the banner with Bulldog on it). Hours of operation are Monday through Friday from 11:30 a.m. to 6:00 p.m. year-round. This space is an open, no-questions-asked space with dried and canned goods, and non-perishable items, as well as seasonal fresh produce from our sustainable farm and limited refrigerated goods. Food for this distribution is provided in partnership with Feeding America Riverside and San Bernardino. It is also funded through private donations and the Office of Community Service Learning. For more information, please contact SURF@redlands.edu

CONFLICT RESOLUTION CENTER

Experiencing a conflict? Whether it's with a friend, roommate, another member of a student organization, or faculty or staff member, conflicts happen. Learning to navigate conflicts is important to success in virtually any field, and a vital step in being a part of a community and having healthy, meaningful relationships with others. Please contact crc@redlands.edu for more information.

Book Lending Program:

The Book Lending Program is an initiative to ensure the academic success of First-Generation students (students who are the first to go to college in their families and who meet a particular estimated family contribution [EFC] level). Funded through alumni donations, this program provides books and other classroom materials, when needed, for First-Generation students who could not otherwise afford to purchase them. Books are returned at the end of the course, to be used by other First-Generation students the next semester. The program works alongside the Library and faculty members to ensure the availability of books and classroom materials. For more information, see <https://www.redlands.edu/student-life/student-resources/diversity-on-campus/programs/book-lending-program>

Contact: blp@redlands.edu

TECHNOLOGY LENDING

The Armacost Library provides loans of laptops and other technology, including Bluetooth headphones, digital audio recorders, and smart pens, which can assist with note-taking and audio recording. For those needing ergonomic or accessibility devices, the library has ergonomic keyboards, high visibility keyboards, an ergonomic joystick, and an ergonomic trackball. These resources are accessible to all University of Redlands students on a first-come, first-served basis. For a full list and to check the availability of these items, please visit the [Armacost Library webpage](#) or call (909) 748-8022.

STUDENT DISCRETIONARY FUND:

The Student Discretionary Fund, managed by Student Affairs, is designed to support student success by addressing financial challenges that could otherwise lead a student to pause or discontinue their education. Divisional leadership will be informed of the student's need for financial assistance to access this fund. The support provided can cover a range of personal expenses, including utility bills, gas money, emergency travel home due to a family tragedy, off-campus counseling, medical costs, and occasionally mental health assessments. Grants from this fund are awarded based on the student's financial need. To apply, students can complete the Student Discretionary Fund Application, which is available at <https://forms.office.com/r/aX7dvAnbG2> or contact student_affairs@redlands.edu.

STUDENT LOUNGES:

Lounges for all students to sit, work, and eat can be found [here](#) on the University website.