

Information Technology for GIS

Geol 4427-5527 -- 3 credits

Fall Semester

Instructor: Keith T. Weber
 Meeting: Tuesdays 8:30am-11:00am MT
 Text: none

Syllabus

#	Week of	Topics	Hands-on
1	Aug. 24	Overview of course and syllabus Understanding Networks	
2	Aug. 31	Understanding Servers	
3	Sep. 7	CyberSecurity and System Administration	X
4	Sep. 14	Exam 1	
5	Sep. 21	Understanding RDBMS	X
6	Sep. 28	Enterprise Databases/Object-Relational Databases	X
7	Oct. 5	ArcGIS Enterprise	X
8	Oct. 12	ArcGIS Server basics	X
9	Oct. 19	Guest speaker: Wilma Robertson, Idaho GIO	
10	Oct. 26	AGOL web maps	X
11	Nov. 2	Data Architecture and SSQl in ORDBMS	X
12	Nov. 9	Data Science and Data Engineering	X
13	Nov. 16	Cloud computing and GIS	
14	Nov. 23	No class- Thanksgiving Break	
15	Nov. 30	Delivering Actionable Information	
16	Dec. 7	Dead week (review)	
17	Dec. 14	Final Exam	

Grading is based on a weighted total points schedule as shown below. Be aware that although homework is weighted 10-15%, there are nearly 2000 pts derived from homework in contrast to 100-200 from exams.

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Exam I:	30%	Exam I:	25%
Final Exam:	45%	Final Exam:	35%
Homework:	15%	Homework:	10%
		Project:	20%
Classroom	10%	Classroom	10%

Late policy: -10% per day

Our program is committed to all students achieving their potential. If you have a disability or think you have a disability (physical, learning disability, hearing, vision, psychiatric) which may need a reasonable accommodation, please contact the ADA Disabilities & Resource Center located in Graveley Hall, Room 123, 282-3599 as early as possible.

	Greater than	Less than
A	91	100
A-	87	90.9
B+	84	86.9
B	81	83.9
B-	78	80.9
C+	74	77.9
C	71	73.9
C-	69	70.9
D+	64	68.9
D	60	63.9
D-	56	59.9
F	0	55.9

Download a spreadsheet to track your scores and grades from
<https://giscenter.isu.edu/training/MyIT4GISscores.zip>

State Law, Academic Freedom, and Course Expectations

Under Idaho Code § 67-5909D (effective July 1, 2025), courses that are "derived from or promote" certain concepts associated with critical theory or DEI may fall under additional state scrutiny. Importantly, Idaho Code § 67-5909D also affirms that it does not "limit the free discussion of ideas in a classroom setting," allowing us to maintain a learning environment where we can explore a wide range of perspectives thoughtfully and respectfully.

Like all courses at Idaho State University, this course is grounded in the values expressed by the Idaho State Board of Education:

"Membership in the academic community imposes on administrators, faculty members, other institutional employees, and students an obligation to respect the dignity of others, to acknowledge the right of others to express differing opinions, and to foster and defend intellectual honesty, freedom of inquiry and instruction, and free expression on and off the campus of an institution." SBOE Policy III.B.

Your learning is at the forefront of my approach in this class. In designing this course, I have carefully selected readings, activities, and/or assignments to challenge and support your growth. You are encouraged to engage critically with all course materials—questioning arguments, considering multiple viewpoints, and forming your own reasoned conclusions. While you may encounter perspectives different from your own, you will never be asked to adopt any particular belief or ideology.

As we begin our work together, I encourage you to review the syllabus and other course materials carefully. They are designed to help you understand the course structure, expectations, and how we will build a respectful, engaging learning community this semester. If you do not wish to take this course for any reason, please contact your Academic Advisor (AskAnAdvisor@isu.edu) to find alternatives that may be available to you. Please be sure to review the [academic calendar](#) for