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Learning objectives

By the end of this course you will be able to:

Appreciate both the simplicity and the complexity of raster GISdata

Apply a variety of the raster-specific spatial analysis tools in ArcGIS

Model a variety of earthly spatial phenomena using raster data

Recognize the breadth of raster static and dynamic modeling applications

Develop complex, analytical workflows for solving practical geospatial problems using raster data

Extend your understanding of the display, manipulation, and analysis of raster data beyond the confines of Esri software

Course policies

Lecture policies

Please make it to class on time and respect your fellow classmates at all times, which means not interfering with their learning experience. It is disrespectful to your classmates and instructor to surf the internet, text, talk on the phone, sleep, or involve yourself in other distracting activities during class. Please refrain from all phone use during class.

Disenrollment policy

According to Fort Lewis College, as the instructor of this course, I reserve the right to disenroll any student from this class if that student has missed as least one schedule class during the first four days of the week in which the course is scheduled to meet for the first time. If you choose not to come to class during the first week, know that your spot in the class may be given to an individual on the waitlist.

Attendance and quizzes

In order to be successful in this class, it is essential that you attend every single class session. Lectures, labs, discussions, and class activities provide valuable information and experiences that are difficult or impossible to make up if missed. Quizzes will be frequently given, at random, and at any point during the class. They will typically consist of a single question, aimed at ensuring you are paying attention in class, reviewing the lecture slides, and absorbing the lab materials. If you get it right, you will receive full credit (5 points); if you get it wrong, you will get partial credit (3 points), because you still came to class! In addition to quizzes, we will also frequently have in-class exercises which are worth 2 quiz grades (10 points). Of course, things will always come up that can affect attendance. If you have a valid* reason for an absence that you know about ahead of time, it is your responsibility to discuss this with me and to turn in assignments before your absence. There will be no make-up quizzes; however, I will drop the lowest two quiz grades (or one activity grade). Make-up exams will only be permitted if you have a valid* excuse, and you will be given a different exam from those given during the regular exam session.

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issues that require immediate attention.

Laboratory Policies

As with lectures, lab attendance is vital to your success in this course. It is unacceptable to miss a lab, as each one provides valuable skills that will be necessary in subsequent labs. Lab sessions for this course are three hours long. I understand the inherent challenge of a three-hour computer-based lab, but you are expected to be present throughout the entire class period. It is unfair to me, as the instructor of 30+ students, and to your peers who stay for the entire lab session, for you to leave early only to seek help outside of the defined class hours. I will not always be available for help during other times of the week. Unless otherwise stated, completed lab assignments are due 30 minutes prior to the following week's lab period. Most assignments will be turned in on Canvas which keeps track of the precise timing of assignment submission. Standardized penalties for lab assignments are as follows:

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Disability Services

Fort Lewis College is committed to providing all students a liberal arts education through a personalized learning environment. If you think you have or you do have a documented disability which will need reasonable academic accommodations, please call the Director of Disability Services, 280 Noble Hall, 970-247-7459, for an appointment as soon as possible.

Academic Integrity

including, but not limited to, cheating on exams, plagiarism, forgery of academic documents, falsification of information on academic documents, or unauthorized access to computer files containing academic information. Academic dishonesty may result in sanctions ranging from a lowered grade on a particular assignment to an report submitted to the Office of the Vice President of Academic Affairs. The policy on academic integrity by students can be found here: https://wiki.fortlewis.edu/display/POL/Section+1.++Academic+Integrity+by+Students++Excerpt.

Tentative class schedule (subject to change)

Week	Type	Day	Date	Topic	Reading
	Lecture	М	9/2	Introduction to the class, syllabus, each other	_
1		W			

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	Lab	W, R	11/6, 11/7	Lab 9: Terrain analysis I
11	Lecture	М	11/11	Terrain analysis I