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## URP 6905A

# Directed Study Raster Analysis

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**Teaching Assistant:**

**Office Periods:** To be determined  
**Class Periods:** As scheduled

**Prerequisites:** URP6270 or equivalent. Preferred URP6272 but not required  
(See instructor)

**Readings:** Text: None Required.

**Software:** ArcGIS in UFApps

**Attendance:** Online Course which adheres to UF attendance policy.

## Course Description:

This course is intended to provide students in the Urban and Regional Planning program GIS Analysis techniques for land use analysis.

## Course Objectives:

1. Knowledge of raster modeling using Model Builder
2. Knowledge Raster Modeling with Iterators

## Course Outline:

Week	Topics Covered
Week 1	Introduction and Class Overview
Week 2	Vector Conversion Opportunities for Raster Analysis
Week 3	Model Builder Programming
Week 4	Models Using Iterators
Week 5	Multiple Raster Processing
Week 6	Basic Suitability
Week 7	Creating Combined Raster Data
Week 8	Paper Discussing the Value of Techniques Presented for this Directed Study Course

## Grading Scheme for Final Paper:

Letter Grade	Percentage
A	93-100%
A-	90-92.99%
B+	88-89.99%
B	83-87.99%
B-	80-82.99%
C+	78-79.99%
C	73-77.99%
C-	70-72.99%
D+	68-69.99%
D	58-67.99%
D-	55-57.99%
E	Below 55.99%

For greater detail, see the Registrar's Grade Policy regulations at <http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>

# Academic Honesty:

Students must follow the University's policy regarding cheating and the use of copyrighted materials. Students are responsible for reading and abiding by the University's student code of conduct (<http://www.dso.ufl.edu/studentguide/studentconductcode.php>) and the University Honor Code. Under the 'Student Honor Code', "on all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: 'On my honor, I have neither given nor received unauthorized aid in doing this assignment'" (<http://www.dso.ufl.edu/judicial/honorcode.php>). In particular, there are rules governing plagiarism. If you directly quote someone or use an idea from another source, you must attribute that idea or those words to an original author. If you are unclear about what constitutes plagiarism, please make an appointment with me to discuss this. You can also consult the above website and the graduate catalog for further information. In the context of this course, if you directly quote someone or use an idea from another source, you **must** attribute that idea or words. Failure to follow the rules regarding Integrity in Graduate School may result in a failure in this course and possible disciplinary action under the Judicial Process for Academic Honesty Violations. If you are unclear about what constitutes plagiarism or other aspects of academic honesty, please make an appointment with the instructor to discuss this.

## ***Use of Other Reference Material***

In written work, the format of all references should follow the format of used by the *Journal of the American Planning Association* (JAPA) and based upon *Publication Manual of the American Psychological Association, Sixth Edition* (2010), and the *Chicago Manual of Style, 15<sup>th</sup> Edition*. This method is called the **parenthetical citations – reference list style or the reference list style**. Citations should appear in the text as follows: (Levinson & Krizek, 2008) when using an idea from the text; or (Levinson & Krizek, 2008, p. 103) when using a specific quote on the indicated page (in this case, page 103). A good source of information on the APA format can be found on the website of the Writing Center at the University of Wisconsin – Madison: <http://www.wisc.edu/writing/Handbook/DocAPA.html> and under the "Frequently Asked Questions" about the APA Style at: <http://www.apastyle.org/learn/fags/index.aspx?imw=Y>. Students from other departments may use a commonly accepted format for citations from their own field.

## ***General Information***

**The course has no prerequisite courses, and students with advanced statistical analysis skills may be exempted from this class with both instructor and graduate coordinator permission.** You are expected to achieve at least a "B" in this course because it is a core requirement of a graduate program at the University of Florida.

At the completion of this course, students should have an in-depth knowledge of planning statistical analysis, basic probability, and hypothesis testing using parametric and non-parametric analysis in support of planning problem analysis.

**This course is a required course for Masters of Arts in Urban and Regional Planning (MAURP) students.**

No student will be allowed to miss the midterm or final examination without prior authorization. Students are expected to attend classes and are required to notify me if they are expecting to miss a class because of another commitment or class conflict. I will make every effort to accommodate students with a legitimate reason for missing a lecture; however the student must make arrangements to get the lecture notes from a classmate.

**Accommodations for Students with Disabilities:**

I will respect the needs for accommodations for students with disabilities consistent with the University's policy on such accommodations. Students requesting accommodation must first register with the Dean of Students Office at 001 Reid Hall (352) 392-8565. The Dean of Students Office will provide documentation to the student who must then provide this documentation to me when requesting accommodation. I am happy to provide reasonable accommodations for students who register with the DRC, and ask that students inform me of any request no later than the first week into the course.

**Teaching Philosophy:**

The assignments of this course and all courses that I teach have been designed to allow students to practice the kinds of skills they will use as planning professionals. The exercises have been designed to develop the skills that will be important in professional practice: (1) critical thinking; (2) presentation (verbal) communication; (3) evaluation and critique; (4) argumentation; and (5) written communication skills. Consistent with the expectations of professional conduct in this course, all written assignments, except minor in-class exercises, must be typed. No hand-written assignments will be accepted.

Students will be asked to exercise their critical thinking skills throughout the course in homework assignments and through examinations.

**Student Support Services:**

As a student in an on campus course, you have access to the student support services. For course content questions contact your instructor.

For any technical issues you encounter with your course please contact the UF computing Help Desk at 342-392-HELP (4357). Visit [Information Technology - UF Computing Help Desk](#) for more information.

For a list of additional student support services links and information please visit [Student Services - Distance Learning](#).