

Visualization of Spatial Information – SUR 3323

1 Overview

Methods of mapping, modeling, communicating and visualizing spatial features. Includes boundary and topographical features, attributes, site modeling, site development and mapping using computer-aided mapping and design features.

- 3 Credits
- Fall Semester
- Format: 100% online: Lecture videos are on the eLearning website
- <http://elearning.ufl.edu/>

Course Prerequisites: none

Instructor: Katie Britt (Phone: 813.757.2183; Email: k.britt@ufl.edu, Office: Plant City, PEPC 116A)

- Please use gatorlink email (k.britt@ufl.edu) for fastest response.
- Office hours: as needed by appointment via Adobe Connect¹, phone, or email.

Textbook(s) and/or readings: None.

2 Learning Outcomes

At the end of this course, each student will be able to:

- Produce readable graphic communications using AutoCAD software
- Develop intelligent drawings by attaching attributes to graphic objects
- Solve geometric construction problems using graphical methods
- Perform the necessary AutoCAD tasks required of an entry level surveyor

3 Course Logistics

This course is entirely web-based and students may access lectures, supporting materials, quizzes and homework assignments as they become available each week.

Learning modules consisting of lecture videos, supporting material, homework assignment and a quiz, provided online for each topic. Learning modules build on previous modules so you should complete the learning modules in the order presented.

There are no mandatory laboratory sessions. Any office hour sessions will be scheduled with the instructor and conducted in Adobe Connect as needed. Support is also available by phone or by email. In the past, students have typically found that communication by email is a flexible way to work through assignment issues.

¹ Adobe Connect is a software program used to conduct virtual meetings. See “Using Adobe Connect Software” section of the syllabus.

Technology Requirements:

- A computer or mobile device with high-speed internet connection.
- A headset and/or microphone and speakers; a web cam is suggested.
- Latest version of web browser. Canvas supports only the two most recent versions of any given browser. [What browser am I using?](#)
- Adobe Connect: <http://ufifas.adobeconnect.com/> (see “Using Adobe Connect Software” section below).

Using Adobe Connect Software

Office hour meetings (per request) will be conducted using Adobe Connect web conferencing software. The software is accessed by clicking the link provided by the instructor via the eLearning course site. The instructor will schedule and post sessions and their links. Click the provided link to access the office hour session.

The eLearning site provides information about participating in Adobe Connect meetings and sessions. Adobe Connect requires internet connection, a web browser, and Adobe Flash Player version 10.1 or higher. A microphone, speakers, and a webcam are recommended for participation in office hours to capitalize on the full communication functionality of Adobe Connect. Adobe Connect supports almost all operating systems, including Windows, Macintosh, Linux, and Solaris. Most widely used browsers are also supported, including Internet Explorer, Firefox, Safari, and Chrome.

3.1 Assignments & Deliverables

Participation

Class participation is encouraged. Discussions and questions can take place with the instructor during scheduled office hours or via phone or email. Discussion can also take place on the eLearning course site’s message boards.

Weekly Topic Structure

A series of instructional videos will be made available each week, corresponding to that week’s topic. These video lectures teach the necessary skills, information, and tasks to complete each week’s assigned quiz and homework.

Quizzes

Each week’s quiz may be taken at any point up to the deadline included in the course schedule. The deadline for each quiz will generally be before the homework assignment is completed. Quizzes will assess mastery of material in the module, but cumulative skills may be needed due to the nature of the course content. **There are no provisions for making up a missed quiz.** Exceptions will be made only for extenuating circumstances. A missed quiz will result in a score of zero, and each quiz can be taken only once. To accommodate a potential missed quiz, the lowest quiz score will be dropped.

Starting with module 2, there will be an opportunity to make up half of the points missed on each quiz. This opportunity is optional. For each quiz question missed you may make up half of the points by posting a “hypothetical” quiz question and answer for that module’s content in the provided discussion board topic for the module. Posts that are deemed of appropriate quality and content will be accepted if

submitted by the corresponding homework deadline. These discussion board posts of questions and answers should be of a quality that would be helpful to study for the midterm and final exams.

Homework Assignments

Each homework assignment deliverable must include a .dwg, .pdf, and/or project feedback as specified in the assignment instructions. These deliverables and their associated quizzes are typically due as the next week's topic begins. Refer to the included schedule for due dates. The instructor reserves the right to modify the schedule if necessary. Any modifications will be announced through the eLearning course site. All homework projects are to be completed **individually**. Assignments must be submitted by the deadline, as **late work will not be accepted. There is not provision for late or missed homework assignments** aside from being included in the policy of dropping the lowest homework score, excluding the final assignment.

Submitted files for homework assignments should conform to the following naming convention: Course Prefix & Number – HW# - Student Last Name – First Initial (for example: **SUR3323-HW2-Britt-K.dwg**). Additional submission instructions will be included in each homework assignment.

Exams

The exams for the course are scheduled as an online, one-hour exams that can be taken any time between 8 AM and 8 PM. The exams are cumulative, covering topics from the entire semester covered up until that point.

- Midterm Exam: October 23th
- Final Exam: December 11th

3.2 Grades & Grading Scale

Grading Item	Points	Description
Quizzes	12 @10 points (120 points total)	Online quizzes. See "Quizzes" section. Lowest quiz grade dropped. See also opportunity to make up half of points on discussion boards.
Midterm Exam	70 points	October 23: Online Midterm Exam
Homeworks	12@ 20 points + 1@40 points (280 points total)	14 homework assignments. Final project (HW 14) is worth 40 points. Lowest homework dropped excluding HW 14.
Final Exam	80 points	December 11: Online Final Exam
Total=	550	Total Possible Points

The final grade will be calculated by dividing the number of cumulative points received by the total possible points. The instructor reserves the right to modify the grading scheme as necessary. Individual assignments, quizzes, and exams will not be curved. Grades may or may not be curved at the end of the semester. Final grades are based on the +/- grading scale used at UF. For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
Corresponding Course Score	91-100	90	89	81-88	80	79	71-78	70	69	61-68	60	0-59
Grade Points	4	3.67	3.33	3	2.67	2.33	2	1.67	1.33	1	0.67	0

4 Course Content

Order of Learning Modules and Exams

Module	Topic	HW/Quiz
1	Course Outline, Introduction – AutoCAD Basics and Layout	HW 1, Quiz 1
2	Basic Drafting, Editing, and Plotting	HW 2, Quiz 2
3	Geometric Drafting (COGO – Coordinate Geometry) Labor Day (9/5)	HW 3, Quiz 3
4	2D Orthographic Drawing	HW 4, Quiz 4
5	Dimensioning and Text	HW 5, Quiz 5
6	AutoCAD Extended Basics	HW 6, Quiz 6
7	Templates, Title Blocks, and more Plotting (Extended Basics II)	HW 7, Quiz 7
8	Blocks Homecoming (10/14)	HW 8, Quiz 8
9	Block Libraries and Attributes	HW 9, Quiz 9
Midterm	Online Midterm Exam: October 23	Midterm Exam
10	3D Modeling	HW 10, Quiz 10
11	Surface Models Veteran's Day (11/11)	HW 11, Quiz 11
12	Introduction to Civil 3D	HW 12, Quiz 12
13	Civil 3D Points Thanksgiving (11/23-25)	HW 13, Quiz 13
14	Civil 3D – Import Points, Point Styles, and Label Styles	HW 14
Final	Online Final Exam: December 11	Final Exam

Schedule for Exams, Quiz deadlines, and Homework deadlines

August	September	October	November	December
1 Tu				
2 We			1 We Q11	
3 Th			2 Th	
4 Fr	1 Fr HW2		3 Fr HW11	1 Fr
5 Sa	2 Sa		4 Sa	2 Sa
6 Su	3 Su	1 Su	5 Su	3 Su
7 Mo	4 Mo Labor Day	2 Mo	6 Mo	4 Mo
8 Tu	5 Tu	3 Tu	7 Tu	5 Tu HW14
9 We	6 We Q3	4 We Q7	8 We Q12	6 We Last day of classes
10 Th	7 Th	5 Th	9 Th	7 Th Reading Day
11 Fr	8 Fr HW3	6 Fr Homecoming, HW7	10 Fr Veterans Day, HW12	8 Fr Reading Day
12 Sa	9 Sa	7 Sa	11 Sa Veterans Day	9 Sa
13 Su	10 Su	8 Su	12 Su	10 Su
14 Mo	11 Mo	9 Mo	13 Mo	11 Mo Final Exam
15 Tu	12 Tu	10 Tu	14 Tu	12 Tu
16 We	13 We Q4	11 We Q8	15 We	13 We
17 Th	14 Th	12 Th	16 Th	14 Th
18 Fr	15 Fr HW4	13 Fr HW8	17 Fr Q13	15 Fr
19 Sa	16 Sa	14 Sa	18 Sa	16 Sa
20 Su	17 Su	15 Su	19 Su	17 Su
21 Mo First day of classes	18 Mo	16 Mo	20 Mo	18 Mo
22 Tu	19 Tu	17 Tu	21 Tu HW13	19 Tu
23 We	20 We Q5	18 We Q9	22 We Thanksgiving Break	20 We
24 Th	21 Th	19 Th	23 Th Thanksgiving Day	21 Th
25 Fr Q1, HW1	22 Fr HW5	20 Fr HW9	24 Fr Thanksgiving Break	22 Fr
26 Sa	23 Sa	21 Sa	25 Sa	23 Sa
27 Su	24 Su	22 Su	26 Su	24 Su
28 Mo	25 Mo	23 Mo Midterm Exam	27 Mo	25 Mo Christmas Day
29 Tu	26 Tu	24 Tu	28 Tu	26 Tu
30 We Q2	27 We Q6	25 We Q10	29 We	27 We
31 Th	28 Th	26 Th	30 Th	28 Th
	29 Fr HW6	27 Fr HW10		29 Fr
	30 Sa	28 Sa		30 Sa
		29 Su		31 Su
		30 Mo		
		31 Tu		

*Note that Homework 7 and 12 are due on school holidays, but may be turned in early.

5 Policies and Requirements

This syllabus represents current plans and objectives for this course. As the semester progresses, changes may need to be made to accommodate timing, logistics, or to enhance learning. Such changes, communicated clearly, are not unusual and should be expected.

5.1 Late Submissions & Make-up Requests

It is the responsibility of the student to access on-line lectures, readings, quizzes, and exams and to maintain satisfactory progress in the course.

Late submissions will not be accepted except for under extenuating circumstances. Examples of extenuating circumstances can be found at

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

Computer or other hardware failures, except failure of the UF e-Learning system, will not excuse students for missing assignments. Any late submissions due to technical issues **MUST** be accompanied by the ticket number received from the Helpdesk when the problem was reported to them. The ticket number will document the time and date of the problem. You **MUST** e-mail your instructor within 24 hours of the technical difficulty if you wish to request consideration.

For computer, software compatibility, or access problems call the HELP DESK phone number—352-392-HELP = 352- 392-4357 (option 2).

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

5.2 Semester Evaluation Process

Student assessment of instruction is an important part of efforts to improve teaching and learning.

At approximately the mid-point of the semester, the School of Forest Resources & Conservation will request anonymous feedback on student satisfaction on various aspects of this course. These surveys will be sent out through Canvas and are not required, but encouraged. This is not the UF Faculty Evaluation!

At the end of the semester, students are expected to provide UF with feedback on the quality of instruction in this course using a standard set of university and college criteria (UF Faculty Evaluations). These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open for students to complete during the last two or three weeks of the semester; students will be notified of the specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>.

5.3 Netiquette: Communication Courtesy

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. Failure to do so may result in loss of participation points and/or referral to the Dean of Students' Office. <http://teach.ufl.edu/docs/NetiquetteGuideforOnlineCourses.pdf>

Prepare emails as you would in a professional setting. Start emails with an appropriate subject line, including the course number (SUR 3323) followed by the subject of the email. Emails are typically responded to within a business day. Please try to avoid last minute emails as I may be unable to respond before a homework, quiz, or exam deadline.

5.4 Academic Honesty Policy

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: *"We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity."*

You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit 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."*

It is assumed that **you will complete all work independently** unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct or appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated.

Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see:

<http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code>.

5.5 University Policy on Accommodating Students with Disabilities:

Students requesting accommodation for disabilities must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc/>). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking the quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

5.6 Software Use

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

6 Getting Help

For issues with technical difficulties for e-learning in Canvas, please post your question to the Technical Help Discussion in your course, or contact the UF Help Desk at:

- Learning-support@ufl.edu | (352) 392-HELP - select option 2 | <http://elearning.ufl.edu>
- Library Help Desk support <http://cms.uflib.ufl.edu/ask>
- SFRC Academic Hub <https://ufl.instructure.com/courses/303721>

6.1 Student Life, Wellness, and Counseling Help

- Counseling and Wellness resources <http://www.counseling.ufl.edu/cwc/>

- U Matter, We Care <http://www.umatter.ufl.edu/>
- Career Resource Center <http://www.crc.ufl.edu/>
- Other resources are available at <http://www.distance.ufl.edu/getting-help> for online students.

6.2 Student Complaint Process

The School of Forest Resources & Conservation cares about your experience and we will make every effort to address course concerns. We request that all of our online students complete a course satisfaction survey each semester, which is a time for you to voice your thoughts on how your course is being delivered.

If you have a more urgent concern, your first point of contact should be the SFRC Academic Coordinator or the Graduate/Undergraduate Coordinator for the program offering the course. You may also submit a complaint directly to UF administration:

- Students in online courses: <http://www.distance.ufl.edu/student-complaint-process>
- Students in face-to-face courses:
https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf