

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: correll@ufl.edu, Office: Plant City, PEPC 116A)

- Please use gatorlink email (correll@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 a lecture, supporting material, homework assignment and a quiz are 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.

Technology Requirements:

- A computer or mobile device with high-speed internet connection.

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

- 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 will be made available at the beginning of the week, usually Monday or Tuesday. Each quiz typically closes as the next week’s topic begins. While quizzes assess mastery of recently covered material, cumulative skills may be needed. **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 zero score. Each quiz can be taken only once.

Homework Assignments

Each homework assignment deliverable must include a .dwg, .pdf, and/or project feedback. 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**.

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 28th
- Final Exam: December 14th

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.
Midterm Exam	50 points	October 28: Online Midterm Exam
Homeworks	12@ 20 points + 1@40 points (280 points total)	14 homeworks. Final project (HW 14) is worth 40 points. Lowest homework dropped excluding HW 14.
Final Exam	100 points	December 14: 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. 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	95-100	90-94	85-89	80-84	75-79	70-74	65-69	60-64	55-59	50-54	45-49	0-44
Grade Points	4	3.67	3.33	3	2.67	2.33	2	1.67	1.33	1	0.67	0

4 Course Content

Learning Modules

Week	Starting	Topic	Due – HW/Quiz
1	August 22	Course Outline, Introduction – AutoCAD Basics and Layout	HW 1, Quiz 1
2	August 29	Basic Drafting, Editing, and Plotting	HW 2, Quiz 2
3	September 5	Geometric Drafting (COGO – Coordinate Geometry) Labor Day (9/5)	HW 3, Quiz 3
4	September 12	2D Orthographic Drawing	HW 4, Quiz 4
5	September 19	Dimensioning and Text	HW 5, Quiz 5
6	September 26	AutoCAD Extended Basics	HW 6, Quiz 6
7	October 3	Templates, Title Blocks, and more Plotting (Extended Basics II)	HW 7, Quiz 7
8	October 10	Blocks Homecoming (10/14)	HW 8, Quiz 8
9	October 17	Block Libraries and Attributes	HW 9, Quiz 9
10	October 24	Review, Online Midterm Exam: October 28	Midterm Exam
11	October 31	3D Modeling	HW 10, Quiz 10
12	November 7	Surface Models Veteran's Day (11/11)	HW 11, Quiz 11
13	November 14	Introduction to Civil 3D	HW 12, Quiz 12
14	November 21	Civil 3D Points Thanksgiving (11/23-25)	HW 13, Quiz 13
15	November 28	Civil 3D – Import Points, Point Styles, and Label Styles	
16	December 5	HW 14, Review	HW 14
17	December 12	Final Exam: December 14	Final Exam

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 in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, 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