Department of Civil Environmental and Geomatics Engineering
Florida Atlantic University
Course Syllabus

1. Course title/number, number of credit hours

Land Subdivision and Platting Lab - SUR 3463L	1 credit hour

2. Course prerequisites, corequisites, and where the course fits in the program of study

Prerequisites: SUR 2101; SUR 2101L; corequisite SUR 3463.
This course provides an introduction into the principles of the subdivision of real estate, including computation of parcel dimensions and areas, civil engineering design issues, and regulatory processes.

3. Course logistics

Term: Spring 2013
This is a classroom lecture/laboratory course
Class location and time: R 7:10-8:50 PM (Lab) *Blackboard Collaborate*

4. Instructor contact information

Instructor's name	Loren J. Gibson, Instructor
Office address	Boca Raton campus, building EG36, room 223
Office Hours	F 8:00–10:00 AM; other times by appointment
Contact telephone number	
Email address	(561) 297-3936 lgibso15@fau.edu

5. TA contact information

TA's name	
Office address	
Office Hours	
Contact telephone number	
Email address	

6. Course description

Physical elements of designing land subdivisions, including circulation systems, sewer systems, drainage systems, soils and earthwork grading considerations, erosion control, lot and block arrangement, topography and existing land use factors, geometric analysis procedures, presentations to city planning and zoning boards.

7. Course objectives/student learning outcomes/program outcomes

Course objectives	I. Understand how to compute parcel corner coordinates. II. Understand how to compute parcel areas and bearings, lengths, and curve data for parcel boundaries. III. Be able to interpret regulatory requirements related to parcel dimensions and area, and design a subdivision in conformance with them. IV. Perform an elementary drainage computation for a subdivision. *V.* Be able to prepare a subdivision map based on the design.
Student learning outcomes & relationship to ABET a-k objectives	A. 1. Understand how to compute parcel areas, corner coordinates, and bearings, lengths, and curve data for parcel boundaries (a, e, k). B. Be able to interpret regulatory requirements related to parcel dimensions and area, and design a subdivision in conformance with them (a, b, c, d, e, f, g, h, j, k). C. Perform an elementary drainage computation for a subdivision (a, b, c, d, e, f, h, j, k).

	D. Be able to prepare a subdivision map based on the design (a, d, g, k).	
Relationship to program outcomes	**Outcome 1**: An understanding of professional and ethical responsibility.	High
	Outcome 2: A working knowledge of fundamentals, engineering tools, and experimental methodologies.	High
	Outcome 3: An understanding of the social, economic, and political contexts in which engineers must function.	High
	Outcome 4: An ability to plan and execute an engineering design to meet an identified need.	High
	Outcome 5: An ability to function on multi-disciplinary teams.	Medium
	Outcome 6: An ability to communicate effectively.	High
	Outcome 7: Graduates will have an advanced understanding of the following areas of Geomatics Engineering: a) Surveying, including but not limited to, boundary and land surveying, subdivision and plat creation, control surveys, and construction surveys, b) geographic information systems (GIS), c) photogrammetry and remote sensing d) mapping, to include but not limited, to topographic maps, cadastral maps, and land use maps, e) geodesy, and f) Global Navigation Satellite Positioning Systems (GPS, GLONASS, etc).	High
	Outcome 8: Graduates will have a conceptual understanding of the role of Geomatics Engineering in infrastructure planning and sustainability, including safety, risk assessment, environmental issues, and hazard mitigation.	High
	Outcome 9: Graduates will be successful in finding professional employment, attaining professional licensure, and/or pursuing further academic studies.	High

8. Course evaluation method

Laboratory assignments: 100%	*Note*: The minimum grade required to pass the course is C.

9. Course grading scale

See the supplementary *Course Policies Document*.

10. Policy on makeup tests, late work, and incompletes

Makeup tests are given only if there is solid evidence of a medical or otherwise serious emergency that prevented the student of participating in the exam. Makeup exam should be administered and proctored by department personnel unless there are other pre-approved arrangements.
Late work is not acceptable.
Incomplete grades are against the policy of the department. Unless there is solid evidence of medical or otherwise serious emergency situation incomplete grades will not be given.

11. Special course requirements

Students must check their official FAU electronic mail accounts and the official course web page (Blackboard) on a daily basis for announcements and other correspondence.
Students are responsible for obtaining use of suitable computer hardware, software, and Internet connection in order to participate in the *Blackboard Collaborate* lecture classes.
Students must acquire headphones and microphone for classes.
Travel to a campus location may be required for examinations.

12. Classroom etiquette policy

Attendance during the Blackboard Collaborate sessions is mandatory. Students are required to fully participate in the live sessions, and not merely log in to the classroom session and physically leave the computer terminal.

13. Disability policy statement

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) located in Boca Raton campus, SU 133 (561) 297-3880 and follow all OSD procedures.

14. Honor code policy

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and place high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. See University Regulation 4.001 at http://www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf

15. Required texts/reading

1. Official *Course Policies* document, available on the official course web page (Blackboard).
2. Ghilani & Wolf, *Elementary Surveying, An Introduction to Geomatics*, 12th ed.
3. Dewberry, *Land Development Handbook*, 3rd ed.

16. Supplementary/recommended readings

See the official course web site on Blackboard.

17. Course topical outline, including tentative dates for exams/quizzes, papers, completion of reading, and other exercises (continued)

Laboratories

Date	*Topic*
Thur Jan 10	Public records research via Internet; review of COGO functions within CAD
Thur Jan 17	Start subdivision computation and drafting assignment
Thur Jan 24	Subdivision computation and drafting assignment (cont.)
Thurs Jan 31	Subdivision computation and drafting assignment (cont.)
Mon Feb 04***	***Last day for withdrawal/drop receiving a 25% tuition adjustment***
Thur Feb 7	Predetermined area assignment.
Thur Feb 14	Predetermined area assignment (cont.).
Thur Feb 21	State plane coordinate assignment.
Thur Feb 28	State plane coordinate assignment (cont.)
Fri Mar 04***	***Last day for withdrawal/drop without receiving an "F"***
Thur Mar 07**	**Spring Break**
Thur Mar 14	Preliminary subdivision plan.
Thur Mar 21	Preliminary subdivision plan (cont.).
Thur Mar 28	Review of preliminary subdivision plan; start final subdivision map.
Thur Apr 04	Final subdivision map (cont.).
Thur Apr 11	Final subdivision map (cont.).
Thur Apr 18	Final subdivision map (cont.).