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| **1. Course title/number, number of credit hours** | | | | | | | |  |  |  | | | | |
| SUR3463-Land Subdivision and Platting (2-credits) and SUR3463L-Land Subdivision and Platting Lab (1-credit) | | | | | 3 credit hours (2 credit hours for lectures and 1 credit hour for Lab) | |  | | |  |  | | | |
| **2. Course prerequisites, corequisites, and where the course fits in the program of study** | | | | | | | |  |  | |  |
| Prerequisites: SUR 2101L- Fundamentals of Surveying Lab AND SUR2101-Fundamentals of Surveying OR SUR2104C Fundamentals of Surveying with minimum grade of “C”  AND CGN 2327 - FUNDAMENTALS OF AUTOCAD WITH MINIMUM GRADE OF “C”  Corequisites: SUR3463-LandSubdivision and Platting and SUR3463L-Land Subdivision and Platting Lab are corequisites to each other.  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** | | | | | | | |  |  | |  |
| *Semester*: Fall 2015  This is a live, on-line 2-credit lecture course with companion in person 1-credit lab  Class time: Tuesday, 7PM – 10PM | | | | | | | |  |  | |  |
| **4. Instructor contact information** | | | | | | | |  |  | |  |
| *Instructor’s name*  *Office address*  *Office Hours*  *Contact telephone number*  *Email address* | | Hongbo Su  Building 36, Room 223 TBA  9am-12pm, Tuesday and Wednesday  561-297-3936  suh@fau.edu | | | | |  | | |  |  | | | |
| **5. TA contact information** | | | | | | | |  |  | |  |
| *TA’s name*  *Office address*  *Office Hours*  *Contact telephone number*  *Email address* | | TBA | | | | |  | | |  |  | | | |
| **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* | | | 1. Understand how to compute parcel corner coordinates. 2. Understand how to compute parcel areas and bearings, lengths, and curve data for parcel boundaries. 3. Be able to interpret regulatory requirements related to parcel dimensions and area, and design a subdivision in conformance with them. 4. Perform an elementary drainage computation for a subdivision. 5. Be able to prepare a subdivision map based on the design. | | | |
| *Student learning outcomes*  *& relationship to Program/ABET*  *a-k outcomes* | | | 1. Understand how to compute parcel areas, corner coordinates, and bearings, lengths, and curve data for parcel boundaries (a, e, k). 2. 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). 3. Perform an elementary drainage computation for a subdivision (a, b, c, d, e, f, h, j, k). 4. Be able to prepare a subdivision map based on the design (a, d, g, k). | | | |
| *Relationship to Geomatics Engineering educational objectives* | | | | **Objective A: Practice geomatics engineering** within the general areas of boundary and land surveying, geographic information systems (GIS), photogrammetry, remote sensing, mapping, geodesy, and global navigation satellite positioning systems in the organizations that employ them. | | H |
| **Objective B: Advance their knowledge** of geomatics engineering, both formally and informally, by engaging in lifelong learning experiences including attainment of professional licensure, and/or graduate studies. | | H |
| **Objective C: Serve as effective professionals**, based on strong interpersonal and teamwork skills, an understanding of professional and ethical responsibility, and a willingness to take the initiative and seek progressive responsibilities. | | H |
| **Objective D: Participate as leaders** in activities that support service to, and/or economic development of, the region, the state and the nation. | | H |
| **8. Course evaluation method** | | | | | |  | | | | | |  |  |
| Laboratories, homework: Approx. 55%  Mid-term and final exams: Approx. 45% | | | | *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 will 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. | | | | | | |  |  | | | | |  | |
| **12. Classroom etiquette policy** | | | | | | |  |  | | | | |  | |
| University policy requires that in order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular phones and laptops, are to be disabled in class sessions. | | | | | | |  |  | | | | |  | |
| **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. Code of Academic Integrity** | | | | | | |  |  | | | | |  | |
| 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 [www.fau.edu/regulations/chapter4/4.001\_Code\_of\_Academic\_Integrity.pdf](https://exchange.fau.edu/owa/redir.aspx?C=LzsrykF9ck2R7YW3fuHlLFIz-xy2T9IIh5f4wovKPUUefxEzEO-vRapGunabCX6L64O2eED8PJs.&URL=http%3a%2f%2fwww.fau.edu%2fregulations%2fchapter4%2f4.001_Code_of_Academic_Integrity.pdf" \t "_blank) | | | | | | |  |  | | | | |  | |
| **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, 14th ed.  3. Dewberry, Land Development Handbook, 3rd ed. | | | | | | |  |  | | | | |  | |
| **16. Supplementary/recommended readings** | | | | | | |  |  | | | | |  | |
| See the official course web site on Blackboard. | | | | | | |  |  | | | | |  | |

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| **17. Course topical outline, including tentative dates for exams/quizzes, papers, completion of reading, and other exercises** | |
|  | Lectures |
| Date | Topic |
| Wed Jan 09 | Course introduction; coordinate geometry (COGO) computations. |
| Wed Jan 16 | COGO applied to subdivision computations |
| Wed Jan 23 | Area computation review; parcel dimensions governed by predetermined area. |
| Wed Jan 30 | Parcel dimensions from predetermined areas; Newton’s method applied to COGO |
| Mon Feb 04\*\*\* | \*\*\*Last day for withdrawal/drop receiving a 25% tuition adjustment\*\*\* |
| Wed Feb 06 | State plane coordinates for subdividing and platting |
| Wed Feb 13 | Real property boundary aspects of land subdivisions |
| Wed Feb 20 | Regulatory aspects of land subdivision and platting |
| Wed Feb 27 | Mid-term examination |
| Fri Mar 01\*\*\* | \*\*\*Last day for withdrawal/drop without receiving an “F”\*\*\* |
| Wed Mar 06\*\* | \*\*Spring Break\*\* |
| Wed Mar 13 | Preliminary project and site analysis. |
| Wed Mar 20 | Land surveying design process |
| Wed Mar 27 | Student presentations of subdivision/platting regulations. |
| Wed Apr 03 | Field trip to a regulatory agency. |
| Wed Apr 10 | Stormwater management design. |
| Wed Apr 17 | Stormwater management design (cont.). |
| Wed Apr 24 | Potable water distribution; domestic waste water collection; street design. |
| Wed May 01\* | \*Final Exam\* |

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|  | Laboratories |
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| 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.). |