FLORIDA ATLANTIC UNIVERSITY

COURSE CHANGE REOUEST Ur

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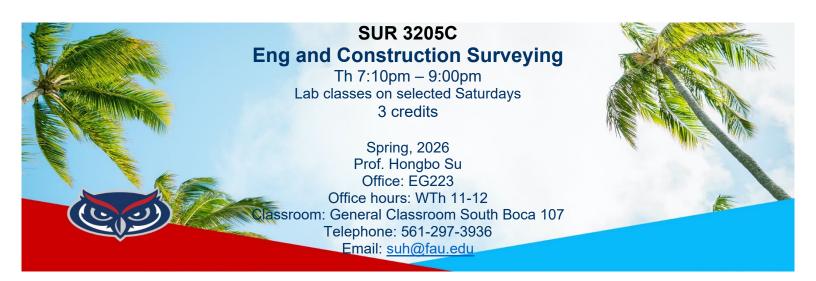
Department

College

Ī	UUPC Approval <u>9/8/25</u>
	UFS Approval
	SCNS Submittal
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	Catalog

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Current Course	e Current Course Title				
Prefix and Numb					
	ached for ANY changes to cu by the changes; attach docu	rrent course details. See <u>Template</u> . Plea montation	ase consult and list departments		
Change title to:	by the changes, attach doct	Change description	to:		
		Comments and the second			
Change prefix					
From:	To:				
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Change WAC/Gordon Rule status**		Change corequisites	Change corequisites to:		
Add	Remove				
Change General Education Requirements***		:S***			
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*See <u>Definition of a (</u> **WAC/Gordon Rule of	<u>creait Hour.</u> criteria must be indicated in sy	llabus and			
approval attached to this form. See <u>WAC Guidelines</u> .		Please list existing and ne	Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).		
***GE criteria must be indicated in syllabus and approval attached to this form. See Intellectual Foundations Guidelines .					
Effective Term/Y			Effective Term/Year		
for Changes:		for Termination:			
Faculty Contact/En	nail/Phone				
Approved by		,	Date		
Department Chair		aisar	8/28/25		
College Curriculum	Clabour		8/28/25		
College Dean			\$ 124 (15		
UUPC Chair ——	Korey Sorge		9/8/25		
UUPC Chair Undergraduate Studies Dean Korsy Sorgs Undergraduate Studies Dean		9/8/25			
UFS President					
Provost			_		

Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.



Course Description

Surveying applications for engineering, construction, and transportation work. Route surveying and geometric design; topographic site surveys and mapping; earthwork computations.

Instructional Method

In-Person w/ Live Remote Option

Prerequisites/Corequisites

SUR 3141 – Automated Surveying and Mapping (2-credits) AND SUR3141L-Automated Surveying and Mapping Lab (1-credit) or SUR 3141C with a minimum grade of "C"

Course Objectives/Student Learning Outcomes

The course provides discussions of new technology and the new methods that are being used in the field of construction surveying and layout. In this regard, the focus will be on fieldwork practices, precise angle and distance measurements, traverse computations, various leveling techniques, curve computations, layout techniques and construction control.

- 1. An ability to apply basic concepts of construction Surveying (1)
- 2. Ability to utilize surveying equipment and surveying techniques in construction (1)
- 3. Ability to comprehend the field and office procedures for precise work in engineering surveying and construction (1,6)
- 4. Ability to perform construction control (1,3) and lay out a vertical curve and perform cut and fill calculations (5,6)

Course Evaluation Method

Course attendance: 5%

Field notes (one by each group): 5% Lab reports* (one by each group): 30%

Midterm exam: 30%

Final exam: 30%

*As can be seen with the contribution of lab reports to overall grade, these reports will be the integral part of this course. As such, reports will include all the measurements, methods, analysis, results, drawings etc. for all the scheduled lab activities.

Both exams are online using lock-down browser on Canvas.

Course Grading Scale

- 94-100 = A
- 90-93 = A-
- 87-89 = B+
- 84-86 = B
- 80-83 = B-
- 77-79 = C+
- 74-76 = C
- 70-73 = C-
- 67-69 = D+
- 64-66 = D
- 61-63 = D-
- 0 60 = F

Policy on Makeup Tests, Late Work, and Incompletes (if applicable)

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.

Special Course Requirements

All assigned homework must be submitted on or before the posted time. Per day 10% penalty will be enforced for late submissions.

Both midterm and final exams will be given online and open-book. You are required to use a computer with a web camera and a reliable internet connection. Lockdown browser will be used to verify the exam-taker's identity.

To succeed in this course all exams must be taken. The reasons for missing an exam must be documented, i.e. doctor's note etc. An unsatisfactory excuse will result in an F entered for that exam. Make-up exams will be administered for ONLY valid reasons.

All exams will be taken on the honor system and must be done by the student ONLY with NO

You are encouraged to work in groups to complete the homework assignments and/or to study together. However, the completed homework assignments must be your own work.

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.

Policy on the Recording of Lectures

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

Attendance Policy

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to http://www.fau.edu/counseling/

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

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 an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see *University Regulation 4.001*.

If your college has particular policies relating to cheating and plagiarism, state so here or provide a link to the full policy—but be sure the college policy does not conflict with the University Regulation.

Required Texts/Readings

Wesley G. Crawford (2002). "Construction Surveying and Layout", 3rd Edition, Wesley G. Crawford; ISBN-13: 978-0964742116

Supplementary/Recommended Readings

Barry F. Kavanagh (2015). "Surveying with Construction Applications", 8th Edition, Prentice Hall.

Course Topical Outline

Include a breakdown of topics covered (generally, by class day or by week), deadlines for course assignments/requirements, and dates of exams, quizzes, papers, and completion of readings. The *Provost's Policy and Procedure: Definitions of a Credit Hour* needs to be followed in developing out-of-class assignments.

Week 1: Introduction, Construction Surveying

Week 2: Communication Week 3: Field Practices Week 4: Layout Techniques

Week 5: Direction Measurements and Traverse Computation

Week 6: Horizontal Curve

Week 7: Coordinate Geometry and Office Practices

Week 8: Construction Control and One-Person Surveying

Week 9: Spring Break

Week 10: Vertical Curve and Quantities

Week 11: Leveling

Week 12: Total Station and Distance Measurements

Week 13: Chain Corrections and Lasers

Week 14: Equipment Calibration

Week 15: Course review

Final Exam: (University Schedule: http://www.fau.edu/registrar/courses/final-exams.php)

Laboratories (Location: IS113 on Boca Campus)				
Date	Topic			
Sat. Feb 8	Total Station, Coordinate Geometry and layout of the corners of a building			
Sat. Feb 22	Horizontal Curve and layout; office processing			
Sat. Mar 22	Vertical Curve and layout			
Sat. April 5	Leveling and setting grade			