# **FLORIDA ATLANTIC**

# **COURSE CHANGE REQUEST Undergraduate Programs**

Department Civil, Environmental and Geomatics Eng.

UUPC Approval <u>9/8/25</u>	<u>-</u>
UFS Approval	
SCNS Submittal	
Confirmed	
Banner Posted	
Catalog	

UNIVERSITI	Confege Engineering and Computer Science Car		Catalog	
Current Course Prefix and Num	ber SUR3103	SUR3103 Current Course Title Geomatics		
Syllabus must be at	tached for <b>ANY</b> changes to c		details. See <u>Template</u> . Please	consult and list departments
Change title to:	d by the changes; attach doc	umentation.	Change description to:	
3			3 1	
Change prefix				
From:	To:			
Change course n	umber			
From: 31	03 <b>To</b> : 3103C			
Change credits*				
From: 2	<b>To:</b> 3		Change prerequisites/	minimum grades to:
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Change WAC/Go	ordon Rule status**	_	Change corequisites to	:
Add	Remove			
Change General Education Requirements***  Add Remove Change registration controls to:  *See Definition of a Credit Hour.  **WAC/Gordon Rule criteria must be indicated in syllabus and				
***GE criteria must b	this form. See <u>WAC Guidelines</u> e indicated in syllabus and app . See <u>Intellectual Foundations</u> (	roval	Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).	
	ffective Term/Year Spr 2026 Terminate course? Effective Term/Year		ective Term/Year	
Faculty Contact/E	mail/Phone F. Bloetsch	er fbloetsc@fa	au.edu 239-250-2423	
Approved by				Date 8/28/25
Department Chair		kaisar		0/20/25
College Curriculum	ChairGala	an Liu		8/28/23
College Dean				8/28/2025
CUPC Chair	Korey Sorge	741 11	,	9/8/25
Undergraduate Studies Dean Dan Meeroff		9/8/25		
UFS President				
Provost				

Email this form and syllabus to <a href="mailto:mjenning@fau.edu">mjenning@fau.edu</a> seven business days before the UUPC meeting.



### **SUR 3103C**

#### **Geomatics**

Date: Friday 8:00 AM - 9:50 AM

Building: Instructional Services Boca Room: 113

3 Credit(s)

Spring 2026 - 1 Full Term

### **Instructor Information**

Olfat Sarhang Zadeh

Email: ozadeh@fau.edu

Office: EW, 230 C

Office Hours: Tuesday & Thursday 12:45 PM – 1:45 PM (or by appointment by zoom)

Phone:

# **Course Description**

#### Geomatics

Prerequisites: MAC 1147 or MAC 2210, or both MAC 1140 and MAC 1114, or MAC 2311 with minimum grades of \"C\"

Theory and application of methods used in geospatial data acquisition, such as distance, direction and angle measurements, traverse computation, trigonometric leveling and height determination, topographic surveying, horizontal/vertical curves, terrestrial positioning with GPS.

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Theory and application of methods used in geospatial data acquisition, such as distance, direction

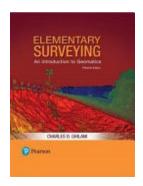
and angle measurements, traverse computation, trigonometric leveling and height determination, topographic surveying, horizontal/vertical curves, terrestrial positioning with GPS.

### **Instructional Method**

#### In-Person

Traditional concept of in person. Mandatory attendance is at the discretion of the instructor.

# **Required Texts/Materials**



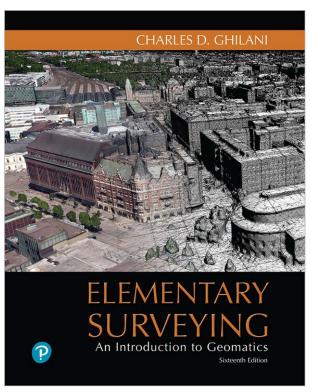
**Elementary Surveying ISBN:** 9780134604657

Authors: Charles D. Ghilani
Publication Date: 2018-01-01

Elementary Surveying ISBN: 9780136822912

Publisher: Pearson Lifetime eBooks

Edition: 16th



**Elementary Surveying: Intro to Geomatics (RRPHE)** 

**ISBN:** 9780136822806

Publisher: PH - IST ONLY, DELETE PO

Edition: 16th

#### Pearson eText Elementary Surveying: An Introduction to Geomatics

-- Instant Access ISBN: 9780137453740

Publisher: Pearson+ Subscriptions

Edition: 16th

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Elementary Surveying ISBN: 9780136822912

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# **Course Objectives/Student Learning Outcomes**

The course provides an overview of fundamentals of graphical and measurement analysis, basic surveying concepts, and introduction to global positioning system.

#### Student learning outcomes:

- I. Understanding distance and angle measurements
- II. Running a leveling traverse
- III. Designing and laying out a horizontal curve, vertical curve, and volume computations
- IV. Performing a topographic survey using the GPS

# **Faculty Rights and Responsibilities**

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

- Establish and implement academic standards.
- Establish and enforce reasonable behavior standards in each class.
- Recommend disciplinary action for students whose behavior may be judged as disruptive under the Student Code of Conduct University Regulation 4.007.

### **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/.

### **Course Evaluation Method**

• Lab reports: 30%

• Homework sets: 10%

Quizzes: 10%Exam 1: 25 %Exam 2: 25%

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

# **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.

# **Attendance Policy Statement**

Students are expected to attend all 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.

### **Religious Accommodation Policy Statement**

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at <a href="https://www.fau.edu/regulations">www.fau.edu/regulations</a>.

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

#### **Time Commitment Per Credit Hour**

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

# **Course Grading Scale**

Letter Grade	Letter Grade
А	90 - 100%
A-	89 - 90%
B+	86 - 89%

Letter Grade	Letter Grade
В	80 - 86%
B-	78- 80%
C+	76 - 78%
С	70 - 76%
C-	68 - 70%
D+	66 - 68%
D	60 - 66%
D-	58 - 60%
F	Below 58

### **Grade Appeal Process**

You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

<u>University Regulation 4.002</u> of the University Regulations contains information on the grade appeals process

# Policy on Make-up Tests, Late work, and Incompletes

Make-up lab sessions are given only if there is solid evidence of a medical or otherwise serious emergency that prevented the student of participating in the session. A note from a doctor, proof of jury duty, etc. is required in order to request a lab session make-up.

Make-up 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. Make-up 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.

### **Artificial Intelligence Preamble**

FAU recognizes the value of generative AI in facilitating learning. However, output generated by artificial intelligence (AI), such as written words, computations, code, artwork, images, music, etc., for example, is drawn from previously published materials and is not your own original work.

FAU students are not permitted to use AI for any course work unless explicitly allowed to do so by the instructor of the class for a specific assignment. [Policy 12.16 Artificial Intelligence]

Class policies related to AI use are decided by the individual faculty. Some faculty may permit the use of AI in some assignments but not others, and some faculty may prohibit the use of AI in their course entirely. In the case that an instructor permits the use of AI for some assignments, the assignment instructions will indicate when and how the use of AI is permitted in that specific assignment. It is the student's responsibility to comply with the instructor's expectations for each assignment in each course. When AI is authorized, the student is also responsible and accountable for the content of the work. AI may generate inaccurate, false, or exaggerated information. Users should approach any generated content with skepticism and review any information generated by AI before using generated content as-is.

If you are unclear about whether or not the use of AI is permitted, ask your instructor before starting the assignment.

Failure to comply with the requirements related to the use of Al may constitute a violation of the Florida Atlantic Code of Academic Integrity, Regulation 4.001.

Proper Citation: If the use of AI is permitted for a specific assignment, then use of the AI tool must be properly documented and cited. For more information on how to properly cite the use of AI tools, visit <a href="https://fau.edu/ai/citation">https://fau.edu/ai/citation</a>

# **Special Course Requirements**

Unless there is a legitimate reason, full attendance to the labs is required. For this purpose, an attendee list will be kept. To claim presence, you must be in lab from the beginning to the end. Absence from labs must be documented. Otherwise, you will lose the grade for that particular week. Lab report for each activity must be finalized and submitted on the due date. These must be submitted by the beginning of the class time. Late submissions will NOT be graded.

# **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.

### 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 therapy, group therapy, and crisis services, to name a few - offered to help improve and maintain emotional well-being. For more information, go to http://www.fau.edu/counseling/

### **Student Support Services and Online Resources**

- Center for Learning and Student Success (CLASS)
- Counseling and Psychological Services (CAPS)
- FAU Libraries
- Office of Information Technology Helpdesk
- Center for Global Engagement
- Office of Undergraduate Research and Inquiry (OURI)
- Student Accessibility Services
- Student Athlete Success Center (SASC)
- Testing and Certification
- Test Preparation
- University Academic Advising Services

#### The Center for Teaching and Learning (CTL)

The CTL has a variety of FREE TUTORING and other academic support services to help you succeed in your courses. You are encouraged to build your academic support team early in the term and meet with your team regularly. At the CTL, you can practice difficult course content, develop skills,

and learn academic success strategies -- in person and online. Learn more about FAU academic support at <a href="https://www.fau.edu/ctl">www.fau.edu/ctl</a>.

# **Course Topical Outline**

Week of) Neek 01 Neek 02 Neek 02 Neek 02 Distance measurements (HW#2, Quiz #1) Neek 03 Neek 03 Neek 04 Neek 05 Neek 05 Neek 05 Neek 05 Neek 05 Neek 06 Neek 07 Neek 08 Neek 08 Neek 08 Neek 09 Neek 09 Neek 00 Neek 00 Neek 00 Lab 2: Traverse field measurements Sep. 26 Neek 07 Neek 08 Neek 08 Neek 09 Neek 09 Neek 09 Lab 2: Traverse field measurements Sep. 26 Neek 07 Neek 08 Neek 08 Neek 09 Lab 3: Leveling, Trigonometric leveling (HW#5, Quiz #4) Neek 09 Neek 09 Lab 4: Trigonometric Surveying Neek 10 Neek 10 Neek 11 Neek 12 Neek 13 Neek 13 Neek 13 Neek 14 Neek 16 Neek 17 Neek 18 Ne	Date	Topic	
Week 01 Aug. 22  Neek 02  Neek 02  Neek 03  Neek 03  Neek 04  Angle measurements (HW#2, Quiz #1)  Neek 05  Neek 05  Neek 06  Neek 07  Neek 08  Neek 08  Neek 09  Neek 09  Neek 06  Lab 2: Traverse computations (HW#4, Quiz #3)  Neek 09  Neek 09  Neek 07  Neek 08  Neek 08  Neek 09  Lab 2: Traverse field measurements  Sep. 26  Neek 07  Neek 08  Neek 09  Lab 3: Leveling, Trigonometric leveling (HW#5, Quiz #4)  Neek 09  Lab 4: Trigonometric Surveying  Neek 10  Neek 10  Neek 11  Neek 11  Neek 12  Neek 13  Nov. 14  Neek 13  Nov. 14  Neek 15  Nov. 21	(Week of)		
Aug. 22  Neek 02  Neek 03  Neek 03  Angle measurements (HW#2, Quiz #1)  Neek 04  Neek 05  Neek 05  Neek 05  Neek 06  Neek 06  Neek 07  Neek 07  Neek 08  Curve computations (HW#5, Quiz #4)  Neek 10  Neek 10  Coordinate System, Satellite positioning (Quiz #6)  Neek 11  Neek 12  Neek 13  Neek 13  Neek 14  Nov. 21  Neek 14  Neek 13  Neek 14  Neek 15  Neek 16  Neek 17  Neek 18  Neek 19  Neek	Week 01	Introduction, what is Surveying/Geomatics? (HW#1)	
Neek 02 Neek 03 Neek 03 Lab 1: Initial job site inspection; set survey stations; pacing and taping. Sep. 5 Neek 04 Angle measurements (HW#3, Quiz #2) Neek 05 Sep. 12 Neek 05 Sep. 19 Neek 06 Sep. 26 Neek 07 Oct. 3 Neek 08 Detail 10 Neek 09 Detail 20 Neek 09 Detail 3: Leveling field measurements Neek 09 Detail 3: Leveling field measurements Detail 4: Trigonometric Surveying Detail 4: Trigonometric Surveying Detail 5: GPS survey, Topographic surveying Neek 13 Neek 13 Neek 14 Neek 15 Nov. 21	Aug. 22		
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Neek 03 Lab 1: Initial job site inspection; set survey stations; pacing and taping.  Sep. 5  Neek 04 Angle measurements (HW#3, Quiz #2)  Sep. 12  Neek 05 Traverse computations (HW#4, Quiz #3)  Sep. 19  Neek 06 Lab 2: Traverse field measurements  Sep. 26  Neek 07 Exam#1, (8:00 am – 10:00 am)  Oct. 3  Neek 08 Leveling, Trigonometric leveling (HW#5, Quiz #4)  Oct. 10  Neek 09 Lab 3: Leveling field measurements  Oct. 17  Neek 10 Lab 4: Trigonometric Surveying  Oct. 24  Neek 11 Curve computations (HW#6, Quiz #5) Area Computations, Volume Computations  Oct. 31 (HW#7)  Neek 12 Coordinate System, Satellite positioning (Quiz #6)  Nov. 7  Neek 13 Lab 5: GPS survey, Topographic surveying  Nov.14  Neek 14 Review  Nov.21			
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Neek 14 Review Nov.21	Week 13	Lab 5: GPS survey, Topographic surveying	
Nov.21	Nov.14		
	Week 14	Review	
Dec. 5 Exam#2, 7:45 am -10:15 am	Nov.21		
	Dec. 5	Exam#2, 7:45 am -10:15 am	

### **Title IX Statement**

In any case involving allegations of sexual misconduct, you are encouraged to report the matter to the University Title IX Coordinator in the Office of Civil Rights and Title IX (OCR9). If University faculty become aware of an allegation of sexual misconduct, they are expected to report it to OCR9. If a report is made, someone from OCR9 and/or Campus Victim Services will contact you to make you aware of available resources including support services, supportive measures, and the University's grievance procedures. More information, including contact information for OCR9, is available at <a href="https://www.fau.edu/ocr9/title-ix/">https://www.fau.edu/ocr9/title-ix/</a>. You may also contact Victim Services at <a href="mailto:victimservices@fau.edu">victimservices@fau.edu</a> or 561-297-0500 (ask to speak to an Advocate) or schedule an appointment with a counselor at Counseling and Psychological Services (CAPS) by calling 561-297-CAPS.