



	<u>Instructor</u>	<u>Teaching Assistants</u>
Name:	Rocky Coleman	NONE
Office:	Forestry 100	
Phone:	491 - 0710	
E-Mail:	<a href="mailto:rocky.coleman@colostate.edu">rocky.coleman@colostate.edu</a> (or through CANVAS)	
Office Hours:	to be announced	
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	Term:	Spring 2019
	Class Meeting Days:	Mon 11:00 - 11:50 am Wed 11 am - 12:40 pm
	Class Location:	Natural Resources 243
	Course Credits:	1

**Welcome!**

Are you ready to **relax** and play around with different GPS units?

**Course Overview**

This course has been designed to provide students with an introductory look at Global Positioning Systems (GPS) for natural resource applications.

**Course Outcomes**

At the end of the course, successful students will have an understanding of the basic workings of GPS, be able to use various GPS units (Garmin, Trimble), and be familiar with the Trimble Pathfinder Office GPS processing software. The student will also be able to use ArcCollector in conjunction with ArcGIS Online databases.

**Course Prerequisites** An introductory course in GIS is recommended and knowledge of Powerpoint.

**Required Texts and Materials** NONE

**Important Dates to Remember**

Course Drop Deadline (with "W"): March 25, 2019 (Monday after Spring Break)

Spring Break: March 18-22, 2019

Last Day to Process a "University Withdrawal": May 10, 2019

## **Library & Research Help**

The CSU Libraries Help Desk provides basic research and technical assistance either in person at Morgan Library or by phone at 970-491-1841. Virtual assistance is also available via the Libraries' Ask Us chat and email services <http://colostate.edu/help/ask-us>

## **Course Policies**

### **Grades of "Incomplete":**

Per university policy, an instructor may assign temporary grade of Incomplete to a student who demonstrates that he or she could not complete the requirements of the course due to circumstances beyond the student's control and not reasonably foreseeable. A student must be passing a course at the time that an Incomplete is requested unless the instructor determines that there are extenuating circumstances to assign an Incomplete to a student who is not passing the course. When an instructor assigns an Incomplete, he or she shall specify in writing using the Department Incomplete Grade Form the requirements the student shall fulfill to complete the course as well as the reasons for granting an Incomplete when the student is not passing the course. The instructor shall retain a copy of this statement in his or her grade records and provide copies to the student and the department head or his or her designee. (Section I.6 of the *Academic Faculty and Administrative Professional Manual*)

### **Disability Access:**

Colorado State University is committed to providing reasonable accommodations for all persons with disabilities. Students with disabilities who need accommodations must first contact the Student Disability Center (SDC) before requesting accommodations from the professor. The Student Disability Center (SDC) <https://disabilitycenter.colostate.edu/> is located in room 100 of the General Services Building. Their phone is (970) 491-6385 (V/TDD). Students who need accommodations in this course must contact the professor at the beginning of the semester to discuss needed accommodations.

### **Attendance Policy:** *"Showing up is half the battle".*

Attending class periods will enhance the students understanding of the concepts that will be applied in the Assigned exercises. There are no pre-planned points associated with class attendance. Attending class sessions is where the student will learn to put course concepts into action and also acquire the necessary skills to work with GPS units. If the student misses a class period, they are responsible for acquiring the missed content.

Participation in official University activities, e.g., an out-of-town athletic event, or special religious observances may provide a legitimate reason for an excused absence. The student is responsible for discussing this with the instructor at the beginning of the semester.

### **Quiz/Exam Makeup Policy :**

Students with "excused absences" will be allowed to make up quizzes and exams. If you have a valid reason for missing a quiz/exam, discuss this with the instructor BEFORE the quiz/exam date. If you are ill on the day of a quiz/exam, inform the instructor by email that you will not be there.

*Excused Absences: Students must inform their instructors prior to an anticipated absence and take the initiative to make up missed work in a timely fashion. Instructors will make reasonable efforts to enable students to make up work which must be accomplished under the instructor's supervision (e.g., examinations, laboratories). In the event of a conflict in regard to this policy, individuals may appeal using established University procedures.*

*For the purposes of this regulation, University-sanctioned activities include competitions, events and professional meetings in which students are officially representing the institution. Appropriate sanctioned activities include Intercollegiate athletics, Collegiate club sports and competitions, Conferences and workshops recognized by the University not related to academics, Commitments on behalf of the University (ASCSU, band, etc.), and*

*Professional activities recognized by the University related to academics. Department heads or their designated representatives must approve sanctioned professional and departmental activities. Other sanctioned activities must be approved by the appropriate program director on record with the Division of Student Affairs offices or the Department of Athletics.*

**Religious Accommodation:**

Participation in special religious observances may provide a legitimate reason for an excused absence. The student is responsible for discussing this with the instructor prior to the absence.

**Professionalism Policy:**

Please arrive on time for all class meetings. If you arrive late, slip in quietly to a seat without disturbing the class. Please silence your phones, iPods, etc. during all classroom and lab lectures. Those not heeding these simple rules of etiquette will be subject to possible public humiliation administered by the instructor. When emailing the instructor or TAs, please include your name and the course number in your email.

**Academic Integrity:**

The Department of Forest and Rangeland Stewardship takes academic integrity seriously. At minimum, academic integrity means that no one will use another's work as their own. The CSU writing center defines plagiarism this way:

Plagiarism is the unauthorized or unacknowledged use of another person's academic or scholarly work. Done on purpose, it is cheating. Done accidentally, it is no less serious. Regardless of how it occurs, plagiarism is a theft of intellectual property and a violation of an ironclad rule demanding "credit be given where credit is due."

Source: (Writing Guides: Understanding Plagiarism.

<http://writing.colostate.edu/guides/researchsources/understandingplagiarism/plagiarismoverview.cfm>.

Accessed, May 25, 2012)

If you plagiarize in your work you could lose credit for the plagiarized work, fail the assignment, or fail the course. Each instance of plagiarism, classroom cheating, and other types of academic dishonesty will be addressed according to the principles published in the CSU General Catalog (see page seven, column two:

<http://www.catalog.colostate.edu/FrontPDF/1.6POLICIES1112f.pdf> ).

Of course, academic integrity means more than just avoiding plagiarism. It also involves doing your own reading and studying. It includes regular class attendance, careful consideration of all class materials, and engagement with the class and your fellow students. Academic integrity lies at the core of our common goal: to create an intellectually honest and rigorous community. Because academic integrity, and the personal and social integrity of which academic integrity is an integral part, is so central to our mission as students, teachers, scholars, and citizens, we will ask to you sign the CSU Honor Pledge as part of completing all of our major assignments. While you will not be required to sign the honor pledge, we will ask each of you to write and sign the following statement on your papers and exams:

***"I have not given, received, or used any unauthorized assistance."***

## Tentative Course Schedule and Important Dates to Remember

<u>week of</u>	<u>Monday</u>	<u>Wednesday</u>	<u>Exercise</u>
Jan. 21	NO CLASS - MLK day	GPS concepts; Garmin positioning and navigation	1: Garmin: Positioning, navigation, tracklogs
Jan. 28	Garmin: tracklogs	Trimble GEO: positioning and navigation	2: Trimble GEO: pos/nav
Feb. 4	Trimble GEO : file collection	Trimble: Pathfinder Office differential correction	3: Trimble: file collection, differential correction
Feb. 11	Trimble GEO: data dictionaries	Trimble: export to ArcGIS	4: Trimble: data dictionaries and export to ArcGIS
Feb. 18	Trimble Juno: ArcPad	Trimble Juno: ArcPad	5: Trimble Juno: ArcPad
Feb. 25	<b>THE QUIZ</b>	ArcGIS Online	6: ArcGIS Online and Arc Collector
Mar. 4	Arc Collector	Arc Collector	
Mar. 11	Class presentations	Class presentations	

## GRADING

### Grading Scale (%)

>90	A
80-90	B
70-80	C
60-70	D
<60	F

### Basis for Final Grade

#### 1 ) Exercises (70%)

	<u>points</u>
Exercise 1: Garmin positioning/navigation/trackogs	50
Exercise 2a: Trimble GEO positioning and navigation	30
Exercise 2b: Trimble GEO file collection / differential correction	20
Exercise 3: Trimble GEO data dictionaries / export to ArcGIS	20
Exercise 4: Trimble Juno with ArcPad	20
Exercise 5: ArcGIS Online with Arc Collector	<u>20</u>
	160

#### 2) The QUIZ (10%)

#### 3) Presentation on a GPS Application (20%)