Department of Geography–University of Victoria

Geography 391– Geocaching and the Global Positioning System February 2015

COURSE OUTLINE February 913, 2015

Instructor:	Cathryn R. Brando(<u>catyrose@uvic.</u>)a Office: DTB A236 Office hours: By appointment
Teaching Assistant	TBA
Class Time:	MondayFriday, 930 am – 4:20 pm (including 1 hour for lunch)
Classroom:	TBA
Labs:	DTB A251/A253
Exam:	In-class(TBA): Friday,February 139:30 am – 1120 am

Course Description

In May, 2000, the United States government removed#SiveAvailability" – the means by which Gobal Rositioning System (GPS) accuracy was intentionally degrafededecurity reasons Overnight, the accuracy of civilian GPS systems increased tenfold. Since this time, GPS use has been rapidly integrated into all manners of daily life, including commercial, transportation, and recreational applications. One increasingly populational use of GPS is the activity of gocaching a hightech game of 'hide and seek' in which users locate hidden containers using coordinates and GPS receivers.

The goal of this course is to introduce students to the activity of geoca**ating** with the fundamentals of GPS navigation, and GPS acollection. Emphasis will be placed on geocaching, the history and workings of GPS and associated navigation systems, map datums and coordinate systems, and basics of GPS data management. Students will gain handsA final project for geocaches on the UVic campus

This course is suitable for students from any background. Strong participation in a group environment and willingness to be outdoors are fundamental to success in this course.

Learning Objectives

By the end of this course, students should be able to: - Explain basic aspects of coord:mhe e 2t caMC /()Tj dnP 2t ;-1(Td ()T 1 Tf 4.<</MCID 4 >>E

class time may be given for working on this assignment, but completion will ocmarpy on students' own time. Marks will be deducted for not adhering to the word count requirement.

Group Geocache Project:

Students will work in small groups to complete a geocaching project. This project will consist of the creation of a "cache" one UVic campus that highlights or showcases some aspect of the campus. Class time will be given to complete this progeted ents will search for the caches of their fellow students in the last afternoon of the course

Readings

Readings will be assigned in class and will consist of short papers or online articles. Students are expected to read and understand readings as test questions will be drawn from this material.

Participation

All students are expected to actively participate in class discussider projects. Attending class throughout the entire week is integral to successfully completing this course.

Late Policy

Due to the condensed nature of this course a strict late policy is being enforced with a 25% deduction for each day late for worksheets. Group projects will not accepted late.

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Grades	Grade Mark	Description
	(%)	
A+	90-100	An A+, A, or A- is earned by work which is technically superior, shows
А	85-89	
A-	80-84	

Grading Info for Undergraduate Courses*

Tentative Course Schedule (specifics may be subject to change)

Monday, February 9th

- Introduction and course outline
- Lecture:Datumsand coordinate systemsPSand Navigation, how to use your GPS

 Reading:Ishikawa and Takahashi 2013
- Worksheet #1: Using Handheld GRease by 4:30 pm
- Instruction manuals for GPS units will be posted on Course Spaces

Tuesday, February 10th

- Lecture:Introduction to gocaching
 - Readings: Neustaedter et al. 2010, O'Hara 2608 atter & Hurd 2005
- Worksheet #2: Managing GPS database by 4:30 pm
- Time to work on assignments

Wednesday, February 11th

- Worksheet #3: Geocachir(due by 4:30 pm)
- Time to work on group project

Thursday, February 12th

- Lecture: Applied GPS
 - Reading: Goodchild 2007, Dobson and Fisher 2003
- Time to work on group projectue by 4:30 pm

Friday, February 13th

- Exam(9:30 am to 1²0 am)
- Course Evaluation
- Class geocache hu(finished by 4:30 pm)