

ESR 101 Laboratory Expectations Sheet

Duration of Course: June 20, 2005 – July 14, 2005

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Lab Meetings: Building SB2, Rm 469 10am to 12 noon,

Meeting days given in schedule below

Course Description:

Environmental Science 101 Laboratory is an integral component of the course and is designed to complement the lecture material. Each laboratory is formatted to foster independent exploration of course material through field work and research. In most cases it is impossible to make up missed labs as the material cannot be stored and made up for later. In addition, the intensive nature of the summer session makes it mandatory to attend all lab sessions. Therefore, missed lab classes, even for a good cause will reflect on your grade.

Format:

The laboratory is designed as discussion during class periods. The general schedule is to alternate days when the class meets in the lab and days on which you perform the exercises in the field. This schedule allows you to do the exercises on natural areas of interest to you. When you come back to class for the next session, you will have a chance to share your results with your classmates. Given that the focus of the course is the natural environment, this arrangement provides you an opportunity to look at one area in depth and to learn about other areas in Portland, Oregon. All students are expected to complete their assignments, be prepared to discuss the material during class and answer questions addressed to them. The grade distribution table will show that 10% of your marks are allotted to class presence and participation.

Grading:

Class presence	10%
Class participation	10%
Lab assignments	70%
Final Presentation	10%

Class participation is a subjective evaluation on my part of your general preparedness of lab and your willingness to participate in and contribute to group discussions.

There are 4 lab assignments that are weighed heavily in the final grade to encourage students to keep up with the weekly assignments. All lab reports are due ***in class*** at the beginning of the lab session. To be fair to those who turn in assignments on time, *1 point will be deducted for everyday you are late* and they will *not* be accepted *at all* after 5 days from when they were due. All lab reports must be *typed*. The lab is worth 25% of your final ESR 101 grade.

In sequential order of labs:

Lab number	Topic covered	Lab report DUE BY
Lab 1 1a 1b	<ul style="list-style-type: none"> Natural Capital Park survey and Biodiversity 	June 27, 2005
Lab 2	<ul style="list-style-type: none"> Human Energy Consumption 	June 30, 2005
Lab 3 3a 3b 3c	<ul style="list-style-type: none"> Plant Adaptation Biomes of Oregon Productivity 	July 7, 2005
Lab 4 4a 4b	<ul style="list-style-type: none"> Island Biogeography Park survey for Edge effect and Corridors 	July 14, 2005
Lab 5	<ul style="list-style-type: none"> Presentations 	July 12 & 13, 2005

Detailed Schedule:

Week	Day	Topic Area
1	M T W Th	<ul style="list-style-type: none"> Orientation, Natural Capital, Jar test On your own Measurement of Biodiversity On your own
2	M T W Th	<ul style="list-style-type: none"> Lab 1 due; Energy concepts On your own Biomes of Oregon and Net Primary Productivity Lab 2 due; On your own
3	M T W Th	<ul style="list-style-type: none"> July 4th Holiday Radish Growth; Jar Test On your own Lab 3 due; Edge effect of corridors
4	M T W Th	<ul style="list-style-type: none"> Island Ecology Presentations Lab 4 due; Presentations FINALS

Individual and Group work Policy:

The class will be divided into 5 groups. These members of each group are encouraged to work together on their lab work. However, everyone is to turn in individual lab reports. How you write up the report is exclusively your own. If you are going to share resources, such as maps, data or diagrams, you must identify these as joint work and give credit to your collaborators. You may not use resources that you did not help create. For example, it is obviously unethical for you to use data that you did not help collect. However, if you and your colleague are creating a set of data from different places then you helped create

that set. Another example: if one of your collaborators makes a map and you help put the data points, that is acceptable.

Presentation:

No group submissions other than your presentations will be accepted. In addition to the final presentation (which will be discussed in class), each group is to present by turn throughout the course of the term an assigned topic in the class. These presentations will not be very formal, but some preparation is expected and will count towards the 10% participation grade. All the other groups are expected to pose at least 1 scientifically relevant question to the group presenting and this in turn will count towards their class participation.

Extra Help:

I am always available via email. I am also available for extra help outside of class by appointment only. If you need help on a topic, make sure you email me first on what you need help with. I will be in class Monday to Thursday, 10am to 12 noon.

Lab Meeting Time:

Come to class prepared with a notebook and writing tool for data gathering. At the beginning of each lab period, students may share their findings before lab reports are collected. Discussion of matter pertinent to the next lab will then begin. Be ready to learn, contribute to and explore your natural environment. For some labs we will be going outdoors so come prepared for rain or cold weather.

Group Presentations:

Group Number	Topic	Date of Presentation
Group 1	Natural Capital	June 27, 2005
Group 2	Biodiversity Measurements	June 29, 2005
Group 3	Energy Concepts	July 5, 2005
Group 4	Biomes of Oregon	July 7, 2005
Group 5	Net Primary Productivity	July 11, 2005

Final Presentation:

All Groups, topic will be discussed in class