**Environmental Science Lab ESCI 1L-07**

Spring 2018 De Anza Community College

Instructor: Lynn Thorensen

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Fridays 10:30am - 1:20pm KC120

office hours Tuesdays @ 11:00 - 12:00 in KC 221

DESCRIPTION

###### An introduction to environmental science as a branch of sciences and its relation to the scientific field in a laboratory and field setting. Applications of environmental, ecological and sustainability principles as they relate to human societies will be explored.

**GENERAL INFORMATION:**

1. This is a team-based and interactive environmental science lab.
2. Make a commitment to attend every class, committed to learning and working with others, in a quest to find sustainable solutions to the challenges we face.
3. Take the pledge to be the strongest person you can be- clear mind and healthy attitude towards yourself, others and the planet.
4. You will be graded on your field journal, team project and attendance.
5. If you need any support or assistance please come talk to me.

**STUDENT LEARNING OUTCOMES:**

1. Assess (apply) the criteria necessary to be successful in the Environmental Science Lab class.
2. In an outdoor laboratory setting, survey local open space areas such as major aquatic life zones (coastal wetlands, inland wetlands, coastal ocean, and riparian) and terrestrial biomes (grasslands, forests, savannah and transitional areas (ecotones)) and the impacts on these systems by humans; as well as human systems including sanitary landfills, sewage treatment facilities and others

**FIELD JOURNAL**

The field journal is the biggest portion of your grade, so I expect you to put the most effort into this activity. A good field journal is critical while being out in the field making observations or conducting field research. While either making observations or conducting intense research each field entry (1 class) should depict exactly what you did that day and what you observed.

For each outing in the field (each class) I want you to first **record location, time, date, habitat and weather** at the header. Then below the header you can write all your notes of that day. For each journal entry I want a **minimum of 2 pages** of notes.

**Attendance and participation in the lab activities and discussions are vital to getting a good grade in this lab.**

**GRADING**: Scale:

Attendance 60 (5 points per lab) A= 90-100 %

Presentation 75 points B= 80-89%

Field Journal 100 points C= 70-79%

Total Points **235** D= 60-69% F= <59%

**Topic and Locations**

**Directions and handouts for each field trip are posted on our class website at**

**/faculty/thorensenlynn/esci1-lab.html**

**Week 1** **Introductions and in class assignment**, **SRC and ESA labs.**

April 13th Ecosystems and California

**Week 2 ESA and SRC activities-on campus**

April 20th Plant Communities of California

**Week 3**  **Henry Cowell State Park**

April 27th Redwood ecology and Biodiversity

**Week 4** **Field Trip:** **McClellan Ranch Park, Cupertino**

May 4th Habitat Restoration and Human Impacts

**Week 5** **Field Trip: Ulistac Natural Area**

May 11th Native American land use and Native Plant Landscaping

**Week 6 Field Trip : McClellan Ranch Park**

### May 18th Water quality and Steven's Creek Watershed

**Week 7 location TBA**

May 25th Soil Health and Carbon Sequestration

**Week 8**  **Field Trip: Alviso National Wildlife Refuge**

June 1st Saltwater marsh habitats and human impacts

***Subjects for presentations due***

**Week 9 Field Trip:** **Greenwaste Recycling Center**

June 8th Waste Management and Recycling

**Week 10 Field Trip: Santa Teresa Open Space Preserve**

June 15th Wildlife Corridors And Urban areas

**Week 11** **Quarter Wrap up- KC 120 lab**

June 22nd Work on Presentation Projects

 shortened lab in lieu of Henry Cowell Field Trip 10:30 - 12:30

 ***journals are due***

**Week 12**  **FINAL**  **Presentations- KC 120 lab**

June 29th 9:15 - 11:15am in KC120

 ***Journals handed back***

ou are responsible for checking with instructor(s) if you miss any classes.