

EEMB 189/ES 191 Biodiversity and Ecological Restoration: Education Practicum and Internship Program.

Fall 2013

The course and internship blends the science of biodiversity and ecological restoration with teaching and curriculum development for grades K-12. Each week will focus on a different sub-topic and will include a lecture and a lab. Faculty, CCBER staff and guest speakers will lead the lectures. The following topics will be covered: science education, local biodiversity, including plant and animal identification and the watershed concept from coastal water to the near shore marine environment. Students will also mentor 5th grade students in CCBER's award winning Kids in Nature (KIN) Program and other school groups.

Instructors

Andy Lanes Teaching assistant

lanes@ccber.ucsb.edu

805-674-3994

Office hours by appointment

Janet Myers Lecturer and KIN Coordinator

jmyers@ccber.ucsb.edu

893-2506

CCBER Room 1001

Office hours by appointment or drop-in

Jennifer Thorsch KIN Director

Thorsch@ccber.ucsb.edu

893-2401

CCBER Room 1011

Office hours by appointment or drop-in

Date	Day	Activity	What	Who	Where
26-Sep	Thursday	Introduction/General PP Journaling/Plant Species	Lecture/Activity Overview	KIN Staff/Jan/Andy	CCBER Classroom
1-Oct	Tuesday	CCBER Station Demo	Demo	KIN Staff and interns	CCBER
3-Oct	Thursday	Cross Cultural Lecture Next Generation Science Standards, Lesson Planning	Lectures/Activity	Dr. Melissa Morgan Dr. Sue Johnson	
8-Oct	Tuesday	Meet and Greet Lesson plan outline and partner name due	Observe/Interact	UCSB Undergrads/KIN Staff	All classes 9:30-10:00 Adelante 10:00-10:30 Franklin 11:00-11:30 Franklin
10-Oct	Thursday	UCSB Undergrads Practice CCBER Stations	Demo/Critique & Midterm	Undergrads	CCBER
15-Oct	Tuesday	CCBER Visit Booser	Stations	UCSB Undergrads/KIN Students	CCBER

17-Oct	Thursday	CCBER Visit Sevilla	Stations	UCSB Undergrads/KIN Students	CCBER
22-Oct	Tuesday	CCBER Gish	Stations	UCSB Undergrads/KIN Students	CCBER
24-Oct	Thursday	Follow-up visit Journaling Sevilla	Fill in journals	KIN Staff, Undergrads, KIN Students	School Sites
29-Oct	Tuesday	Follow-up visit Journaling Booser	Fill in journals	KIN Staff, Undergrads, KIN Students	School Sites
31-Oct	Thursday	COPR Demo	Stations	KIN Staff, COPR Staff, KIN Students	COPR
5-Nov	Tuesday	Follow-up visit Journaling Gish	Fill in journals	KIN Staff, Undergrads, KIN Students	School Sites
7-Nov	Thursday	UCSB Undergrads Practice COPR Stations	Stations	UCSB Undergrads	COPR
12-Nov	Tuesday	COPR Visit Booser	Stations	KIN Staff, COPR Staff, KIN Students	COPR
14-Nov	Thursday	COPR Visit Sevilla	Stations	KIN Staff, COPR Staff, KIN Students	COPR
19-Nov	Tuesday	COPR Visit Gish	Stations	KIN Staff, COPR Staff, KIN Students	COPR
21-Nov	Thursday	Follow-up visit Journaling Sevilla	Fill in journals	KIN Staff, Undergrads, KIN Students	School Sites
26-Nov	Tuesday	Follow-up visit Journaling Booser	Fill in journals	KIN Staff, Undergrads, KIN Students	School Sites
28-Nov	Thursday	Thanksgiving			
3-Dec	Tuesday	Follow-up visit Journaling Gish	Fill in journals	KIN Staff, Undergrads, KIN Students	School Sites
5-Dec	Thursday	Final Presentations	Lesson Plans	UCSB Undergrads	CCBER Classroom
10-Dec	Tuesday	Final Presentations	Lesson Plans	UCSB Undergrads	CCBER Classroom

Lectures, lab/discussion/mentoring: Tuesday & Thursday 9 am - 12 noon
Syllabus subject to change

Course Requirements

UCSB students must purchase a course reader, which is available at the UCSB Bookstore.

UCSB students (a.k.a. Kinterns) will attend all of the lectures and participate in the KIN field trips to CCBER, COPR and the school sites. You will be asked to lead groups of KIN students through the planned activities at CCBER and COPR, including set-up and clean-up and assist the KIN students with work on their journal chapters.

UCSB students will also assist the 5th grade KIN students with their nature journaling and My Garden Notebook activities. The visits will occur on Tuesday and Thursday mornings.

Course Reading: Read one of the articles listed on Gauchospace, answer the assigned questions and turn in the paper on **December 3rd**.

Last Child in the Woods- Ch. 8: Nature Deficit Disorder and the Restorative Environment

Sharing the Joy of Nature- Ch. 1: Learning With the Heart

Discovering Nature Journaling- Ch. 1

The Importance of Journaling: The Nature Journal as a Tool for Learning

Science Stories- Ch 11: Planning for Science

Ordinary Magic: Resilience Processes in Development

Best Practices in Classroom Discipline

Midterm: The midterm will take place on **October 10th** and will focus on your native plant knowledge and guest lectures. The exam will take place at CCBER.

Final Project: Each group (2 students max.) will develop a lesson plan/activity that can be used by the Kids in Nature Program or for other classes (K-12) who visit CCBER. Work on the projects will begin the first week of class. The theme for this quarter is ***Environmental Awareness***. **Your draft lesson plan/outline and name of your partner (if you have one) is due by October 15th. Final lesson plans/activities are due on the day of your presentation.** Please e-mail these items to myers@ccbcr.ucsb.edu and also provide a hard copy. **You will not receive a grade until these items have been received.**

Project Requirements

- Write up a lesson plan for the teacher/instructor including the science standards your activity addresses. Also prepare an outline of the activity and assemble the props. Please include a proposed budget for the materials you need to purchase. We will provide an example
- Present your activity to the class on Dec 5th or on the day of our final Dec 10th from 8am - 11am. There will be a sign up sheet posted on the door of room 1011 a few weeks before the presentations.

Grading Breakdown

- 5% Lesson Plan Abstract
- 20% Midterm
- 5% Journaling
- 5% Reading Assignment
- 25% Final Project/Curriculum Module
 - Clear and well organized presentation
 - Clear and well organized lesson plan
 - Props/poster/activities
- 40% Participation
 - Attendance
 - Enthusiasm
 - Preparation
 - Active Involvement

Deliverables

Please turn deliverables in on time. We will deduct **2 points** for each day the deliverable is late.

Additional Information

Project Theme: Environmental Awareness

Design a lesson that helps students to understand their place in the environment and that their actions will have an impact.