Nature and Science Education Practicum (EEMB 189/ES 191)

Winter 2016

EEMB 189/ES 191 is an environmental education practicum that meets on Tuesday and Thursday mornings from 9am-noon in the Harder Classroom or at various fieldtrip locations. The course is taught by UCSB professors from the Gevirtz Graduate School of Education, local 5th grade teachers, UCSB graduate students, and CCBER staff on topics ranging from environmental education, pedagogy, techniques for class and group management, child development, public speaking, science content and an appreciation of the natural world. As part of our course, UCSB students will teach and mentor 5th grade students on field trips and in the classroom as well as develop and present their own lesson plan, including a hands-on component to peers.

**Instructors**

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<tr>
<th>Date</th>
<th>Day</th>
<th>Activity</th>
<th>What</th>
<th>Who</th>
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<td>5-Jan</td>
<td>Tuesday</td>
<td>Introduction</td>
<td>Overview, Guest Lecture, Plant I.D.</td>
<td>KINterns/Staff</td>
<td>CCBER</td>
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<td>Dr Hillary Young</td>
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<td>7-Jan</td>
<td>Thursday</td>
<td>COPR Demo</td>
<td>Stations</td>
<td>KINterns/Staff</td>
<td>COPR</td>
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<td>12-Jan</td>
<td>Tuesday</td>
<td>COPR Practice Day</td>
<td>Stations</td>
<td>KINterns/Staff</td>
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<td>14-Jan</td>
<td>Thursday</td>
<td>COPR Visit</td>
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<td>Isla Vista/Knappe</td>
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<td>19-Jan</td>
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<td>COPR Visit</td>
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Lectures, lab/discussion/mentoring: Tuesday & Thursday 9 am - 12 noon
Syllabus subject to change

Course Requirements
1. UCSB students must purchase a course reader, which is available at the UCSB Bookstore. Bring the reader to every class as it contains the lesson plans and important information.

2. It is crucial that you take notes during the CCBER demonstration and the garden site visit and read and complete the journal pages so that you are able to present to the KIN students and assist with journaling.

3. UCSB students (a.k.a. KINterns) will attend all of the lectures and participate in the KIN field trips to CCBER and the school sites. You will be asked to lead groups of KIN students through the planned activities at CCBER and in the school gardens, including set-up and clean-up and assist the KIN students with work on their journal chapters. Points will be deducted if you fall short on any of the following areas - Attendance, Enthusiasm, Preparation and Active Involvement. Conversely, extra points may be available if you arrive early to assist with set up or if you stay later to assist with clearing away.

Midterm (Jan 28, take home due back Feb 2)
There are 2 parts to the midterm:
• The in class portion will focus on your native plant knowledge. You will need to know, family, genus, species and a fact about each plant.
• The take home portion requires that you write a one-page fundraising letter to a foundation, organization, or private donor for the Kids in Nature program. For further details, see Gaucho Space.

Reading Assignment (due Feb 23rd)
Choose one of the articles listed on Gaucho Space and answer the assigned questions, which are available on Gaucho Space and in the course reader.

Final Project (due March 10th depending on your presentation day)
Each student or pair of students will develop a lesson plan/activity that can be used by KIN and other (K-12) classes who visit CCBER. Work on the projects will begin the first week of class. The topic for final project is water and ecosystem services. For further details, please see the final project breakdown in the course reader. E-mail all materials to myers@ccber.ucsb.edu and also provide a hard copy.

Final Project Requirements
• Choose a grade level (5th grade preferred)
• Review the Next Generation Science Standards http://www.nextgen/science.org/next-generation-science-standards to learn what students are expected to know and understand at the grade level you have chosen. The link is available on Gaucho Space
• Select an area of focus for your lesson based on the topic of foodwebs and invasive species. We encourage you to meet with the KIN Staff and Interns during the quarter to discuss your project.
• 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. We do have some materials available for you to use.
• Present your activity to the class.

You will not receive a grade until these items have been received.

Grading Breakdown

• 20% Midterm (10% for the in class portion and 10% for the take home.)
• 5% Reading Assignment
• 35% Final Project/Curriculum Module (see Gaucho Space for breakdown)
• 40% Participation (Attendance, Enthusiasm, Preparation, Active Involvement)

Deliverables
Please turn deliverables in on time. We will deduct 1 point for each day the deliverable is late.