ENVS 425/525:
Environmental Education in Theory & Practice

CRN 22333/22339, Winter 2017, Tues 10-11:50 am, Thurs 9-11:50 pm, 142 Columbia Hall

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Course Overview
This class is the first quarter of the Environmental Leadership Program’s two-quarter Environmental Education Initiative. During the winter we will explore various educational theories and the rationale for getting children outside. We will cultivate our own ecological literacy as we develop our skills as environmental educators. Developing sensory awareness – both ours and the children we work with – will be central to our mission. You will work in your team to apply your skills, strengths and creativity towards developing educational materials that will help children connect to the magnificent natural world. Then during spring term you will deliver your environmental education program – in the classroom and in the field. This year the three EE teams and community partners are:

   Canopy Connections – H.J. Andrews Experimental Forest and Pacific Tree Climbing Institute
   Restoring Connections – Mt. Pisgah Arboretum and Adams Elementary
   School Garden Team – School Garden Project

Course Format & Philosophy
The Environmental Leadership Program is a community-based learning program. Our goal is to create meaningful learning experiences that not only help you build your knowledge and skills, but that also make a positive difference in our community. Active, engaged participation is central to this class, so if you prefer passive learning, this class is not for you! Rather, we will focus on critical analysis of the readings using small group discussions and participatory exercises. Emphasis will be placed on critical thinking, effective communication skills, and making learning fun. We, as a group, will be responsible for the learning that occurs. That means you are responsible for doing all the reading and coming to the class prepared for critical discussion. Everyone is expected to share their opinions, perspectives and experiences and to help build a positive, safe, learning environment. By June, I hope you are all inspired and “willing to act for the common good and capable of doing so effectively” (Colby 2003:7).

Learning Outcomes
By the end of this course, you will be able to:

☐ Discuss the history and goals of environmental education.
☐ Plan, implement and evaluate multiple methods for teaching about environmental issues.
☐ Develop an educational unit for a community partner that is appropriate for your audience, responds to community partner’s needs and expectations, and inspires youth to be better stewards of the world.
☐ Work more effectively in a team.
**Required Reading & Materials**

- Various articles posted on Canvas.
- Field notebook (and whatever drawing, painting, writing tools (e.g. ink pens, pencils, erasers, watercolor pencils, brushes) you prefer. Recommended: hand lens, binoculars, field guides.

**Course Requirements**

1. **Participation (10%)**
   This grade is based upon attendance AND the quality of your participation. Due to the participatory nature of this class, absences are impossible to “make-up” and thus inherently will affect your grade. Your participation grade includes completing all the assigned reading, reading and commenting on the critical reviews of others, coming to class on-time and prepared to discuss the materials in an analytical manner, active engagement in class activities, and bringing at least one question to contribute to the discussion of the readings for each class. Participation also includes the following required field trips:
   
   a)  All: Participation in the orientation/workshop hike at HJ Andrews (Saturday 1/14)
   b)  All: Participation in the Whole Earth Nature School workshop (Saturday 1/28)
   c)  Restoring Connections: Shadowing one classroom visit & field trip (in class, Thursday 2/2).
   d)  Garden Team: Training and shadowing SGP (2/2, plus see overview sheet), and one work party.
   e)  All: Restoring Connections pilot at Mt. Pisgah Arboretum (in class, Thursday 3/9)
   f)  All: Canopy Connections pilot at HJ Andrews Experimental Forest (Saturday 3/11)

2. **Sit Spot and field observation notebooks (10%)**
   You will be honing your observation skills by keeping a weekly field notebook. In our hectic lives, we don’t often have the luxury to slow down and observe the beauty of nature around us. A good educator has the ability to inspire wonder, and help kids slow down and notice the brilliance in the details, in the tiny goings-on. This assignment creates space to develop these skills. Please bring your field notebook to every class as we will be actively using them! Please see assignment details on Canvas.

3. **Critical reviews of reading (15%)**
   Learning how to actively engage with the materials you read is a skill that takes practice. The goal of this assignment is to make you a better critical thinker and to encourage you to be an active, engaged reader. Please see assignment details on Canvas.

4. **Facilitating class discussion of reading (5%)**
   Working in groups, you will be in charge of facilitating an engaging 30-minute discussion of the readings. By the end of the discussion, everyone should have a clear understanding of the key points of the readings and how they are relevant to your projects. As a group, you will develop a simple lesson plan that outlines the methods you will use to encourage everyone to participate (feel free to be creative) and the specific questions that you will use guide your discussion. Please submit your lesson plan via Canvas 24 hours prior to your class discussion. I’m happy to provide feedback on your plan, just let me know in advance and submit at least 2 days prior. The goal of this assignment is to give you an
opportunity to practice your facilitation skills, while also developing a deeper understanding of the key concepts/theories we are exploring.

5. **Midterm exam (20%)**
   
   There will be an in-class exam on Tuesday February 21, 2016. This exam will cover key concepts discussed in the reading, in class, and on fieldtrips. The objective is to assess your ability to apply what you have learned so far. The format will be short answers with 1 essay question.

6. **Group project: Environmental education materials (40%)**
   
   Working in your teams, you will be developing education and outreach materials for your community partners. This is where you get to apply what you are learning and tap into your creative energies! Your group project has been designed in collaboration with your community partners in order to benefit the wider community. Thus, the exact final products will vary based on the needs of your partner, your audience, site, etc. However, the goal for all teams is to produce professional quality educational materials that you and these organizations will be able to use in the future. At the end of the term, each team will showcase their materials and/or pilot their lessons and undergo a peer review process. Please see assignment details on Canvas.

**Summary of class activities and grading**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Total Points</th>
<th>Percent of Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation</td>
<td>50</td>
<td>10%</td>
</tr>
<tr>
<td>Sit spot and field observation notebook</td>
<td>50</td>
<td>10%</td>
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<tr>
<td>Critical reviews of the reading (five, 15 pts each)</td>
<td>75</td>
<td>15%</td>
</tr>
<tr>
<td>Facilitating one class discussion</td>
<td>25</td>
<td>5%</td>
</tr>
<tr>
<td>Midterm exam</td>
<td>100</td>
<td>20%</td>
</tr>
<tr>
<td>Group Project – EE package</td>
<td>200</td>
<td>40%</td>
</tr>
<tr>
<td><strong>Total Points</strong></td>
<td><strong>500</strong></td>
<td><strong>100%</strong></td>
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**Grading**

In the service of fairness, late assignments will drop 5 pts. every day until submitted. Sorry, but no exceptions unless you have an excused medical reason (with a note from the student health center) or have made pre-arrangements with me. We are working with community partners and it is critical we meet all our deadlines to maintain good relations! Incompletes are not available for this class.

**Academic Honesty**

I expect everyone to strictly adhere to the University Student Conduct Code ([http://policies.uoregon.edu/vol-3-administration-student-affairs/ch-1-conduct/student-conduct-code](http://policies.uoregon.edu/vol-3-administration-student-affairs/ch-1-conduct/student-conduct-code)). All work submitted for this course must be your own and be written exclusively for this course. You must properly acknowledge and document all sources of information (e.g., quotations, paraphrases, ideas, photos). If you have any questions, it is your obligation to clarify the question before submitting your work.

**Inclusive Learning and Academic Access**

If you have a disability (physical or learning), medical condition, or other situation that you think may affect your performance in this class, please see me during the first week of the term so that I can make arrangements, if necessary, for your full access to all classroom activities. You may also wish to contact Accessible Education Center in 164 Oregon Hall at 346-1155 or uoaec@uoregon.edu.
Schedule of Topics, Readings & Activities

**Week One: Breaking Ground**

**Tuesday January 10**
- Introductions, setting class norms, course overview.
- Activity: Defining environmental education.
- To get started on your field notebook assignment, please read:
- Get connected: sign up for free EE newsletters for the term
  - National Environmental Education Foundation (NEEF): eeweek@neefusa.org

**Thursday January 12 – Orientation with Community Partners**
- Community partner presentations
- Focus on skills: facilitating effective team meetings
- Team planning session: defining mission, goals, vision. To prepare, please read:
  - Community partner websites and project overview info in packet

**Saturday January 14 – Field trip to HJA**
- Leave Onyx Bridge, 9:00am sharp. Bring lunch, water, field notebooks.
- Trail hike, mapping, more – come prepared for cold and wet weather! To prepare, please read:
  - *Coyote’s Guide*, Ch. 2, pp. 21-33, and Ch. 3, pp. 35-47 (Sit Spots through Expanding our Senses)

**Week Two: Building a Foundation**

**Monday January 16, noon**
- MLK Holiday: see the Holden Center. [http://holden.uoregon.edu/daysofservice](http://holden.uoregon.edu/daysofservice) for opportunities to serve your community. Registration required.
- Critical review #1 (of 1/17 readings) due, posted to Canvas

**Tuesday January 17 – History of EE**
- Group discussion of readings – Defining environmental literacy, EE, and current status of EE in OR and US.
  - Tbilisi Declaration. 1977. Summary of goals and guiding principles.
- Skills Workshop: Field Notebooks (please read the following before class!):

**Thursday January 19 – Field trip to Mt. Pisgah Arboretum**
- Meet at Onyx Bridge at 8:50am.
- Team Planning Session # 1 “worksheet” due (one per team)
- Community partner-led training – come prepared for hiking in wet and cold weather, bring your field notebooks!
- Please read these delightful, inspiring, fun readings prior to the field trip:
  - *Coyote’s Guide*, Ch. 3, pp. 47-76 (Questioning and Tracking to Thanksgiving)
Week Three: Planning and Implementing EE

Monday January 23, noon

- Critical review #2 (of readings for 1/24) due, posted to Canvas

Tuesday January 24

- Lively and fun discussion of Coyote’s Guide, Ch. 2, 3, 8, facilitated by:
- And to deepen your sit spot/journaling practice, please read:
  - Tomlinson, Ch. 3. Field Sketching: Beyond the Basics. Pp. 47-64 (stop at Perspective)
- Focus on skills: facilitation and lesson planning.

Thursday January 26 – The Natural Cycle

- Engaging group discussion facilitated by:
- Team work session – applying the Natural Cycle of Learning and the Guidelines of Excellence to your materials
- To be prepared for today’s activities, please carefully read these before class:
  - Coyote’s Guide, Ch. 9 and 10, pp. 197-215, 228-229.

Saturday January 28 – Field trip to Mt. Pisgah

- Meet at Onyx Bridge at 8:50am. Leave at 9am sharp. Bring lunch, water, field notebooks.
- Guest facilitator: Rees Maxwell from Whole Earth Nature School - come prepared for wet and cold weather!

Week Four: Fostering Learning

Monday January 30, noon

- Critical review #3 (of readings for 1/31) due, posted to Canvas

Tuesday January 31

- Thoughtful group discussion of readings
- Activity: Analysis of privilege and what that means for our teaching practice.

Thursday February 2 – Team Time

- Team Plans (using team planning worksheet #2) due today (one per team)
- Restoring Connections: Shadows MPA field trip. Meet at Adams at 8:30am!
- School Garden Team: Training workshop with School Garden Project. Meet in 142 Columbia.
- Canopy Connections: Team meeting/workshop time. Meet in 249 Columbia.
- Please read for today:
  - Coyote’s Guide, Ch. 4 and Ch. 5. Pp 79- 103.
Week Five: Planning and Implementing EE- getting creative!

Monday February 6, noon
- Critical review #4 (of readings for 2/7) due, posted to Canvas
- Team meetings with Katie this week

Tuesday February 7: Maps
- Dynamic group discussion of readings, facilitated by _________________________________
  - Tomlinson, Ch. 4: Field Drawing: Tips for the Field. Pp.75-85; and Maps, Pp. 142-147.
- Hands-on Activities!

Thursday February 9: Storytelling Workshop
- Focus on skills: Storytelling
- Please read for today:
- Team work session: creating YOUR species stories.

Week Six: Assessment and Evaluation

Monday February 13, noon
- Critical review #5, (of readings for 2/14) due, posted to Canvas

Tuesday February 14
- Insightful group discussion of readings:
- Team work session: Developing your assessment strategies

Thursday February 16
- Final project materials due today. Bring 4 copies (or laptops) to class for peer review.
- Engaging group discussion of readings, facilitated by _________________________________
    Read about rubrics.
- Team work session: Finalizing assessment strategies and polishing lesson plans
- Activity: Preparing for the in class exam. (please bring all your notes from class and readings)
**Week Seven: Bringing It All Together/ Professional Responsibilities**

**Tuesday February 21**
- In-class exam
- Field notebooks due

**Thursday February 23**
- Please read for today’s group discussion:
  - Lecturette: Professional organizations and EE in Oregon and the US.
  - Team work session: Undergraduate Research Symposium abstracts

**Week Eight: Reconnecting to Nature**

**Monday February 27**
- Critical review #6 (of 2/28 readings) due, posted to Canvas

**Tuesday February 28**
- Thoughtful group discussion of readings, facilitated by
  - Focus on skills: Group dynamics role-play activity.

**Thursday March 2**
- Final abstract due for Undergrad Research Symposium, posted to Canvas
- Thoughtful group discussion of the readings, facilitated by
    - Eagles and Salmon Reverence. P. 75-80.
    - Reverence. P. 86-90.

**Week Nine: Pilot Tests**
During this week, you will do a run-through of your curriculum materials. Everyone will participate and peer review each other, providing critical constructive feedback on how the materials can be improved. Community partners are invited to these pilots.

**Tuesday March 7**
- Revised project materials due, one hard copy document per team
- Restoring Connections: 2nd grade, Fall/Winter overview (5 min), then full Spring pre-trip lesson (40 min), debrief
- Canopy Connections: 6th-8th grade pre-trip lesson (45 minutes), debrief

**Thursday March 9**
- Restoring Connections: K/1st/or 2nd grade Spring field trip (Mt Pisgah, 8:50 meet at Onyx Bridge, return tbd)
Friday March 10
- Final undergraduate symposium abstract due – uploaded on their website.

Saturday March 11
- Canopy Connections facilitates field trip (HJA, 8:00 leave Onyx Bridge, return by 5:00, with Springfield High School students)

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Week Ten: Lesson Plan Pilots and Wrap
We continue the pilot run-throughs of your curriculum materials and peer review process.

Tuesday March 14
- School Garden Team presents an overview of their materials, (40 minutes), debrief
- Restoring Connections: Kinder and 1st grade, Spring pre-trip lessons (30 minutes/each), debrief

Thursday March 16
- Reflections and wrap
- Final sit spot field observation notebook due.

To prepare for our final discussion, please read:

COURSE EVALUATIONS: On-line course evaluations close midnight on Sunday prior to the beginning of final exams. Please use your new insights on pedagogy and facilitation to share thoughtful and constructive feedback on this course this weekend!

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Finals Week

Thursday March 23:
- Revised and finalized project materials due at end of your exam period, 10:00am.