SYLLABUS

Running on Empty FIG
~Fall 2004~

College Connections
PHYS 199 – CRN 16324
Thursday, 11:00 am – Friendly 225

Instructor:
Dean Livelybrooks
Office: 225 Willamette Hall
Telephone: 346-5855
Email:dlivelyb@hendrix2.uoregon.edu
Office hours: Tuesday 14:00
Thursday 10:00, or by appointment

FIG TA:
Rodrigo Guzman
15 Willamette Hall
Telephone: 346-4777
Email: rguzman@gladstone.uoregon.edu
Office hours: TBA

Courses in the FIG: Physics of Energy & Environment (PHYS 161)
Introduction to Environmental Studies/Social Science (ENVS 201)

Course Description:
The College Connections Running on Empty seminar will provide an introduction to university education, the opportunity to explore science as a process for understanding energy and the environment, and the chance to investigate the interplay between science-based and socially-influenced approaches to environmental problems. It is designed to help you adjust to the university, to develop a better understanding of the learning process, and to acquire essential academic survival skills. College Connections Running on Empty will challenge you to integrate concepts, science and the human experience across disciplines. Assignments will focus on familiarization with university resources, design of a 2-year academic plan, some energetic lab experiments having to do with power and the environment, and a chance to check out on-campus examples of environmentally-sustainable living and development.

Course Objectives:
Upon completion of this course, students will be able to:

- become more engaged in their education – become active inquirers and therefore active learners.
- participate freely in class discussions.
- identify key resource people and offices on campus and their significance.
- understand important aspects of energy, including types of and conversion of energy, power, efficiency and fundamental science concepts underlying “green energy.”
- appreciate, more deeply, the science and social interplay underlying energy and environmental issues, including the notion of a “doubling time” and exponential growth.

Readings:
The text is the Student Handbook. You will be provided with materials from a variety of other sources.
**Grading and Attendance Policies:**
This is a one-credit pass/no pass class. To receive a pass, you must successfully complete all of the four class assignments below, and attend 7 or more of the 9 seminar meetings.

**Assignments:** (complete all to pass):
- Scavenger hunt assignment
- 2-Year academic plan assignment
- Completion of a faculty office visit and one-page written evaluation
- Completion of sheets for one of the labs listed below

**Attendance:**
Attending 7 or more of the nine seminar meetings is required to pass this course.

**Weekly Calendar (subject to change):**

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 30</td>
<td>Introductions. Seminar goal setting. Scavenger hunt materials handed out.</td>
</tr>
<tr>
<td>October 7</td>
<td>Academic planning. Personal power ratings. Materials for time management handed out. <strong>Scavenger hunt assignment due</strong></td>
</tr>
<tr>
<td>October 14</td>
<td>Time management discussion. Video/activity: Forgotten fundamentals of the energy crisis—aka Curmudgeon Goes to the Movies. Materials for academic planning handed out.</td>
</tr>
<tr>
<td>October 21</td>
<td><strong>Lab:</strong> Electricity, Energy &amp; Power, <em>meet in Rm. 17 Willamette.</em></td>
</tr>
<tr>
<td>October 28</td>
<td><strong>Lab:</strong> TBA.</td>
</tr>
<tr>
<td>November 4</td>
<td><strong>Lab:</strong> Light: waves versus particles, the photoelectric effect, &amp; solar cells. <em>Meet in Rm. 17 Willamette.</em> <strong>Two-year academic plan due.</strong></td>
</tr>
<tr>
<td>November 11</td>
<td>The Science Library.</td>
</tr>
<tr>
<td>November 18</td>
<td>Tour of Lillis Business School “Green Building.” <strong>Office hour visit evaluation due.</strong></td>
</tr>
<tr>
<td>November 25</td>
<td>No class. Thanksgiving Holiday.</td>
</tr>
<tr>
<td>December 2</td>
<td>Pizza party and study/review session for PHYS 161 final.</td>
</tr>
</tbody>
</table>