# Environmental Biology Syllabus

**Instructor:** James Dauray  
**Email:** jdauray@clcillinois.edu

**Class Time:**  
- Mon/Wed, 5:30pm-8:20pm, Room C134 (Lecture)  
- Tuesday, 5:30pm-9:20pm, Room C225 (Lab)

**Materials:**  
- *Environmental Science, 13th Edition* by G. Tyler Miller  

<table>
<thead>
<tr>
<th>Class</th>
<th>Topic</th>
<th>Textbook</th>
<th>Due Dates</th>
<th>Lab</th>
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| 1     | **Introduction to Env. Sci**  
*Principles of Science* | Ch. 1  
Ch.2 | *Choose a research topic!* | Science Methods (#1) |
| 2     | **Population and Species Interactions** | Ch. 4, 5 | Quiz #1 | Diversity of Life: Plants (#2) |
| 3     | **Land Ecosystems and Ecological Succession** | Ch. 7  
p. 123-140 | Quiz #2  
*Amazon Deforestation* | Diversity of Life: Animals (#3) |
| 4     | **Aquatic Ecosystems and Biodiversity** | Ch. 7  
p. 140-149 | Quiz #3  
*Invasive Species* | Air Pollution Simulation (#5) |
| 5     | **Exam 1**  
Human Population | Ch. 6 | | Human Populations |
| 6     | **Food and Agriculture** | Ch. 10 | Quiz #4  
*Dust Bowl, Food Poisoning* | Water Pollution Simulation |
| 7     | **Climate Change** | Ch. 15  
p382-399 | Quiz #5  
*Hurricane Katrina, Polar bears, Australia* | Chemical Water Tests (#7) |
<p>| 8     | <strong>Midterm Exam</strong> | | <em>No lecture today!</em> | <em>No lab today!</em> |</p>
<table>
<thead>
<tr>
<th>9</th>
<th><strong>Environmental Health and Toxicology</strong></th>
<th>Ch. 14</th>
<th><strong>Mad Cow Disease, Malaria, Bhopal, Seveso</strong></th>
<th>Beach and Des Plaines River</th>
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<td>10</td>
<td><strong>Air Pollution</strong></td>
<td>Ch. 15 p. 369-381</td>
<td><strong>Quiz #6 London Fog, Donora, Asian Hazes</strong></td>
<td>Volo Bog</td>
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<td>11</td>
<td>Spring Break – No class</td>
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<td>12</td>
<td><strong>Water Pollution</strong></td>
<td>Ch. 11</td>
<td><strong>Quiz #7 Bangladesh, Baia Mare, Spanish Waste Water, Minamata, Exxon Valdez, Deepwater Horizon</strong></td>
<td>Lake/Pond Assessment at CLC (#8)</td>
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<td>13</td>
<td><strong>Exam #3 Renewable Energy</strong></td>
<td>Ch. 13 p. 317-341</td>
<td></td>
<td>Rollins Savanna (#12)</td>
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<td>14</td>
<td><strong>Nonrenewable Energy</strong></td>
<td>Ch. 13 p. 296-317</td>
<td><strong>Quiz #8 Gulf War, Chernobyl, Three Mile Island, Tennessee Coal Ash</strong></td>
<td>CLC Prairie Ecosystem (#9)</td>
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<td>15</td>
<td><strong>Hazardous Waste, Landfills, and Wastewater Treatment</strong></td>
<td>Ch. 16</td>
<td><strong>Quiz #9 E-Waste, Love Canal</strong></td>
<td>Ryerson Forest (#11)</td>
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<td>16</td>
<td>Final Exam</td>
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*Field Trips – Provide own transportation to and from site.

**Computer simulation: Meet in lab C136. Drinks and food not allowed.

**Grading:**

- 2 Regular Exams, 100 pts each 200
- **9 Quizzes, 10pts each, lowest dropped** 80
- Midterm Exam 150 ≥ 90% = A
- **14 Lab Assignments, 25 pts each** 350 80% - 89% = B
- Research Report/Presentation 100 70% - 79% = C
- In class participation (5pts/week) 60 60% - 69% = D
- Ecosystem Report 50 <60% = F
- **Final Exam** 200
Quizzes
A quiz will be given during each lecture (unless an exam is scheduled). Each quiz will be 10 questions and based on the previous week’s lecture. There will be no quiz if an exam is scheduled that day. Quizzes cannot be made up. The lowest quiz grade will be dropped.

Exams
Two regular exams (100 pts each) will be given approximately every three chapters (see schedule for exact dates) and will only cover material since the last exam. One cumulative midterm (150pts) and final exam (200pts) will be given as well. If for any reason you plan on missing an exam, you must contact me before the day of the exam. Make-up exams will be available for legal or medical absences with documentation. Any make-up exams must be taken within one week.

Study Guides
This is a list of the study guides available for each topic.

- Introduction to Environmental Science
- Principles of Science: The Scientific Method
- Populations and Species Interactions
- Land Ecosystems and Ecological Succession
- Aquatic Ecosystems and Biodiversity

Exam 1

- Human Population and Demographics
- Food and Agriculture
- Global Warming and Climate Change
  …and all material from Exam 1

Midterm Exam (Cumulative)

- Human Health and Environmental Hazards
- Air Pollution
- Water Pollution

Exam 3

- Renewable Energy
- Nonrenewable Energy
- Solid Waste and Sewage Treatment
  …and all material from the rest of the semester

Final Exam (Cumulative)

Lab Assignments
There are lab questions and review questions for each lab. The entire lab, including all questions and data tables, must be torn out, stapled, and turned in by the next class meeting date. Some labs, if missed, can be made up independently, others cannot. See the instructor for details.

Class Participation Grade
The 10 points per week class participation grade will be based on attendance, participation in class activities and discussion, and completing in-class assignments.

Research Report
You will write a 4-5 page double-spaced paper (100 pts) on an environmental disaster. See the rubric for more details. There will also be a presentation to accompany this report. The due dates will vary depending on the topic selected.
Communication and Blackboard
We will be using Blackboard, a web based classroom management system. You'll be able to login to Bb [http://clc.blackboard.com](http://clc.blackboard.com) to keep track of assignments, class notes and class announcements. All of the course documents will also be available on Bb. This information will also be distributed through email.

If you are unable to access the email or Blackboard system, please contact the CLC Help Desk at (847) 543-2052. More information on email, usernames, and passwords can be found at [http://www.clcillinois.edu/clcemail.asp](http://www.clcillinois.edu/clcemail.asp).

Academic Integrity
Any student caught cheating on any test or quiz, or plagiarizing a research paper or lab report will be given a zero for that assignment. Multiple incidents will be cause for removal from the class.

Tutoring and Writing Assistance
Biology tutors and assistance with writing assignments is available through the Writing Center in room L133. Contact them at 847-543-2474 or go to [http://www.clcillinois.edu/depts/lac/writingcenter.asp](http://www.clcillinois.edu/depts/lac/writingcenter.asp) for information on hours and appointments. Walk-ins are usually accepted during center hours.

Withdrawal
Last date to drop with refund and no grade is **06/12/2011**. Last day to withdraw with “W” grade is **04/04/2010**. Students who do not plan to complete an enrolled class are responsible for officially dropping the class online or through the touch-tone phone registration system. Students who stop attending class, but do not officially drop remain responsible for all tuition/fees for the class. It is not sufficient to tell me that you want to drop; you must complete the drop/withdrawal action yourself.

Students who stop attending class but do not officially drop will be withdrawn by the institution using the date of last attendance provided by the instructor. Withdrawal grades are:

- **WS** - Withdrawal, stopped attending before **07/10/2011** – no impact on GPA.
- **WF** - Withdrawal stopped attending after **07/10/2011** and failing - equal to “F” on GPA.

Statement on Disabilities
If you have a documented disability that requires accommodations, please discuss this with me as soon as possible and contact the Office for Students with Disabilities to arrange for all necessary services. The office is located in the LRC in room L112. Phone #847-543-2474