Lesson Plan for Best Practices for ICORE workshop.
Teacher: Jane Beebe
Grade Level: 11th or 12th (graphic nature of material)
Subject: AP Biology or a higher level of biology

Lesson Plan: Read Richard Preston’s **Hot Zone** or **Demon in the Freezer**.
Here are the summaries of the books from Richard Preston’s website:

**Hot Zone**
The Ebola virus kills nine out of ten of its victims so quickly and gruesomely that even biohazard experts are terrified. It is airborne, it is extremely contagious, and in the winter of 1989, it seemed about to burn through the suburbs of Washington D.C.
At Fort Detrick's USAMRIID, an Army research facility outside the nation's capital, a SWAT team of soldiers and scientists wearing biohazard space suits was organized to stop the outbreak of the exotic "hot" virus. The grim operation went on in secret for eighteen days, under unprecedented, dangerous conditions.
*The Hot Zone* tells this dramatic story in depth, giving a hair-raising account of the appearance of rare and lethal viruses and their outbreaks in the human race. From a remote African cave hot with Ebola virus, to an airplane over Africa that is carrying a sick passenger who dissolves into a human virus bomb, to the confines of a Biosafety Level 4 military lab where scientists risk their lives studying lethal substances that could kill them quickly and horribly, *The Hot Zone* describes situations that a few years ago would have been taken for science fiction. As the tropical wildernesses of the world are destroyed, previously unknown viruses that have lived undetected in the rain forest for eons are entering human populations. The appearance of AIDS is part of a larger pattern, and the implications for the future of the human species are terrifying.

**Demon in the Freezer**
The first major bioterror event in the United States — the anthrax attacks in October 2001--was a clarion call for scientists who work with "hot" agents to find ways of protecting civilian populations against biological weapons. In *The Demon in the Freezer*, his first nonfiction book since *The Hot Zone*, a #1 New York Times bestseller, Richard Preston takes us into the heart of USAMRIID, the United States Army Medical Research Institute of Infectious Diseases at Fort Detrick, Maryland, once the headquarters of the U.S. biological weapons program and now the epicenter of national biodefense.
Peter Jahrling, the top scientist at USAMRIID, a wry virologist who cut his teeth on Ebola, one of the world's most lethal emerging viruses, has ORCON security clearance that gives him access to top-secret information on bioweapons. His most urgent priority is to develop a drug that will take on smallpox – and win. Eradicated from the planet in 1979 in one of the great triumphs of modern science, the smallpox virus now resides, officially, in only two high-security freezers—one at the Centers for Disease Control in Atlanta and in Siberia, at a Russian virology institute called Vector. But the demon in the freezer has been set loose. It is almost certain that illegal stocks are in the possession of hostile states, including Iraq and North Korea. Jahrling is haunted by the thought that
biologists in secret labs are using the techniques of genetic engineering to create a new superpox virus – a smallpox that is resistant to all vaccines.

USAMRIID went into a state of Delta Alert on September 11th and activated its emergency response teams when the first anthrax letters were opened in New York and Washington, D.C. Preston reports, in unprecedented detail, on the government's response to the attacks and takes us into the ongoing FBI investigation. His story is based on interviews with top-level FBI agents.

Jahrling is leading a team of scientists doing controversial experiments with live smallpox, reawakening the virus at the CDC. Preston dramatizes this work and the conflict it has provoked within the scientific community, and he explains, with cool and devastating precision, what may be at stake if his last bold experiment fails.

Prepare a book report using the following guidelines:

1. Write a 10-12 sentence summary that encompasses the whole book, not just one or a few sections. Address who, what, when, where, and why questions. Do not give any opinions.

2. Include 4-5 hand drawn illustrations that are relative to the story.

3. Describe 5 events from the story (identify and give details) and explain why the event is significant from your point of view.

4. Would you recommend this book to someone else? Why or why not? Make sure your recommendation is explained and well defended.

5. Make sure the book report has a proper heading with student name class period and book citation in the correct format.

6. Make sure the book report is neat, organized, creative and appealing.

7. Make sure the spelling and grammar and without errors.

OR

If a teacher wished to spend more time on Hot Zone, Richard Preston’s website has a ready-made lesson plan that goes into more detail. Here is the link:
http://www.richardpreston.net/guide/_hz/download.html

Notes: I found this book report format on line, but I lost the link to it.