

CHEMISTRY 105 - All About the AIDS Virus

COURSE INFORMATION

Term: Fall 2002, M Hour

Text: **AIDS the Biological Basis** by Edward Alcamo, 2nd edition.

Professor: Dr. Darlene M. Loprete

Office: 108 Kennedy Hall Phone Number: X3905

Email: Loprete@rhodes.edu

<u>Lecture</u>	<u>Topic</u>	<u>Chapter(s)</u>
1	Introduction/Overview	
2-15	The AIDS Epidemic	Chapter 1
	Viral Structure and Replication of HIV	Chapter 2
	Defining and Recognizing AIDS	Chapter 4
	The Epidemiology of AIDS	Chapter 5
	The Immune System and HIV	Chapter 3
	Preventing HIV Transmission	Chapter 6
	Treatments for HIV and AIDS	Chapter 8
	Current Topics	Reserve
16-28	Oral Presentations on Selected Topics	

DESCRIPTION

This course will introduce students to the science of AIDS with a focus on the viral structure and those processes involved in the replication of the virus. In addition we will address issues that affect everyday living, such as preventing HIV infection, vaccine development and the latest therapies/drugs used to treat AIDS and HIV infection.

GOALS

1. To understand the life cycle of HIV, the molecular structure of the virus and why they are important for designing drug therapies.
2. To increase students' knowledge about drug and vaccine development.
3. To have the student investigate an AIDS-related topic.

EVALUATION

1. Daily Quizzes

A 10 minute quiz will be given each class period. For the first half of the course I will write and grade the quizzes. The second half of the semester the quizzes and grading will be the job of the presenters for the day (see below). You will be quizzed on the material covered in the previous lecture and the assigned reading. I will specify the pages in the text that will be covered on the quiz and any problems pertaining to the quiz at the end of each class period.

2. **Exam:** Exam 1 October 15

The exams will cover all the material given in class as well as any assigned reading and problems.

3. **Final Exam:** The final exam is comprehensive and is December 16th at 8:30 am.

4. **Oral Presentations:** Each student will chose an AIDS related topic. It does not have to necessarily deal with the science of AIDS, but can focus on an area that better suits your interest. For example, you may wish to investigate the ethics and legality of mandatory HIV testing. Of course, some scientific aspects may be addressed here, but do not need to be the focus. Your oral presentation should be a PowerPoint presentation of about 20 minutes. The focus of your presentation should be to tell the class a "story" with some details. You should prepare and discuss with me with an outline of what you will present well in advance of your presentation (about 2 weeks).

On the day of your presentation you must submit to me a hard copy of your PowerPoint presentation.

For the second half of the semester each oral presenter for that day will design and grade the quiz for the next class period. The quality of your quiz will be graded as well as your grading. If your quiz is too hard then you will lose points. If your quiz is too easy you will lose points. If your grading is poor you will also lose points. So design good quizzes and grade them fairly.

There will be two presentations per day in addition to the quiz. The dates are at the end of the syllabus. Once you have a topic that has been approved by me then you may choose a date.

5. **Final Paper:** The paper will be due the last day of class. It will be a much more in-depth look at your selected topic. After your oral presentation you must discuss with me the contents of your final paper and submit another outline detailing what information will go into your paper. The papers are typically 8-12 pages, double spaced. No late papers will be accepted.

6. **Final Average:** Your grade will be calculated as follows:

1 exam	20%
Quizzes	20%
Oral Presentation & Quiz Grading	20%
Paper	20%
Final Exam	<u>20%</u>
	100%

7. **Final Grade:** The following is a guide in determining your final letter grade:

Final average:	90-100	A
	80-89	B
	70-79	C
	60-69	D
	Below 60	F

POLICIES

1. **Daily Quizzes:** If you arrive late to class you will not be able to take the quiz for that day. No make-up quizzes will be given.
2. **Use of old exams:** You are **NOT** to obtain, read or use copies of old exams or quizzes at any time during the semester for this course. You will be violating the Honor Code if you do so and appropriate action will ensue.
3. **Make-ups:** If you are unable to take an exam because of an illness, death in the family or an athletic event you must notify me prior to the time of the scheduled exam. Failure to notify me will result in a zero for that exam. If you miss a quiz it will be recorded as a zero. There are no make-ups. At the end of the semester I will drop the 3 lowest quiz grades.
4. **Email**
During the semester I will give you information via email; therefore you will be required to check your email between classes. You will be responsible for any problems or reading I assign over email.
5. **Outlines:** The outline for your oral presentation and your final paper must be typed.

ORAL PRESENTATION DATES

	Student 1	Student 2
October 17	_____	_____
October 24	_____	_____
October 29	_____	_____
October 31	_____	_____
November 5	_____	_____
November 7	_____	_____
November 12	_____	_____
November 14	_____	_____
November 19	_____	_____
November 21	_____	_____
November 26	_____	_____
December 3	_____	_____
December 5	_____	_____