

# AIDS: Science and Society

**BILD 36**

**Winter 2010**

**Instructor:** Cindy Gustafson-Brown (Dr. Gus)

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email: [cgb@ucsd.edu](mailto:cgb@ucsd.edu) (Put **BILD 36** in the subject line!)

office hours: Tues, 6:40 PM, my office, until the questions are exhausted  
or by appointment

Please present your questions about course material in person during office hours, not by email. I cannot guarantee an answer to your email, unless it is an urgent issue.

## **Course description**

Introduction for non-biology majors to the AIDS epidemic: epidemiology, biology, and clinical aspects of HIV infection; HIV prevention, testing and therapy; and the personal, social, economic and legal impacts of AIDS on the individual and society.

## **AS Lecture Notes**

AS Lecture Notes will not be reviewed by the instructor. Use at your own risk.

**Required textbook:** *AIDS Update 2009*, Gerald Stine (2009)

## **Sections**

There will be 8 optional sections per week. In section you will view a film, review the lecture material and/or discuss supplemental readings. You may attend any or all sections as you choose each week. When there is a Monday holiday, you will have to find another section during the week to attend. *There will be no sections or office hours until Jan 11.*

section	time	location	TA	
A03	M 6-7 PM	HSS 2154	Cindy Woo	<a href="mailto:siwoo@ucsd.edu">siwoo@ucsd.edu</a>
A04	M 7-8 PM	HSS 2154	Monique Halabi	<a href="mailto:mhalabi@ucsd.edu">mhalabi@ucsd.edu</a>
A05	W 3-4 PM	HSS 1315	Courtney Dey	<a href="mailto:cdey@ucsd.edu">cdey@ucsd.edu</a>
A06	W 4-5 PM	HSS 2321	Pi Asnaashari	<a href="mailto:pasnaash@ucsd.edu">pasnaash@ucsd.edu</a>
A07	W 5-6 PM	HSS 2321	Michelle Han	<a href="mailto:mnhan@ucsd.edu">mnhan@ucsd.edu</a>
A08	F 9-10 AM	CNTR 217B	Tiffany Wang	<a href="mailto:twwang@ucsd.edu">twwang@ucsd.edu</a>
A09	F 10-11 AM	CNTR 220	Wilson Kwan	<a href="mailto:wkwan@ucsd.edu">wkwan@ucsd.edu</a>
A10	F 11-noon	CNTR 220	Andrew Samida	<a href="mailto:asamida@ucsd.edu">asamida@ucsd.edu</a>

## Formats for discussion sections

Week of:

Jan 4	no sections	
Jan 11	discussion, review	
Jan 18	film: <i>AIDS in Africa</i>	(Jan 18 is holiday)
Jan 25	discussion, review	
Feb 1	discussion, review	(no Friday sections this week)
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Feb 8	discussion, review	
Feb 15	discussion, review	(Feb 15 is holiday)
Feb 22	discussion, review	
Mar 1	film: <i>Dealing with the Demon, part 3</i>	
Mar 8	discussion, review	

## Films

All **films** shown in lecture or in section will be available for viewing **online**, streaming from the library. See the “Films” page on the course web site for links. You *must* access the films from a UCSD computer or use a proxy or VPN if you are off campus. If you are prompted for a username, then you are off campus and are not using a proxy or VPN. If you have problems click on the links for help.

Films are also available for viewing at the Arts Library in the basement of Geisel Library. However, they are not available in the library *during the week they are shown in section*.

Required films:

1. *A Closer Walk* (2003) (shown in lecture, available online)  
Profiles the impact of the AIDS epidemic in many countries. (80 min)  
**covered on the midterm**
2. *AIDS in Africa* (2000) (shown in discussion sections, available online)  
Describes the impact of the AIDS epidemic in Zimbabwe. (55 min)  
**covered on the midterm**
3. *The Age of AIDS* (2006) (available online)  
History of the epidemic, in the U.S. and abroad. (4 hours)  
[www.pbs.org/wgbh/pages/frontline/aids/](http://www.pbs.org/wgbh/pages/frontline/aids/)  
**first half covered on midterm**  
**second half covered on final exam**
4. *Dealing with the Demon, pt 3* (1997) (shown in discussion sections, available online)  
Preventing the spread of HIV among IV drug users. (50 min)  
**covered on the final exam**

Optional films:

5. *And the Band Played On* (1993) (available online)  
Dramatic depiction of early history of the AIDS epidemic. (140 min)

6. *A Time of AIDS, part 1: The Zero Factor* (1992) (available online)  
Early AIDS epidemiology, as the CDC tried to discern the nature of this new disease. (55 min)
7. *A Time of AIDS, part 2: The Hunt for the Virus* (1992) (available online)  
The race between Gallo and Montagnier to identify the causative agent
8. *Surviving AIDS* (1999) (on reserve at the Arts Library)  
Follows long-term non-progressors and one man resistant to infection.
9. *AIDS: answers and breakthroughs, pt 1 & 2* (2001) (reserve at the Arts Library)  
AIDS demographics, medical advances (drugs and vaccine development), prevention efforts, personal stories.
10. *A.B.C. Africa* (2005) (on reserve at the Arts Library)  
Documentary film about AIDS orphans in Uganda.
11. *State of Denial* (2003) (on reserve at the Arts Library)  
Describes the struggle for treatment access in South Africa

### Course grade

This course will be graded on a curve. The class average will be at the B/C boundary.

Attendance at guest lectures	2%
Two quizzes (5% each)	10%
Midterm	32%
Final exam	56%

### Exams

The exams will be closed-notes/closed-book, primarily short answer with a few true/false, multiple choice, and short essay questions. You will be accountable for **all material covered in lecture and all required textbook reading**. You do not need to learn molecular details in the book in any more depth than I present in lecture! There will be exam questions pertaining to the **required films and the “required reading” on the supplemental reading web page**. There will not be exam questions about the presentations by guest speakers. The final exam will be comprehensive, with emphasis on the last part of the course.

Old exams are posted on the course web site. **Review sheets** will be posted on the web site shortly before each exam, and the TA’s will conduct **review sessions** before each exam:

Midterm review	Wed, Feb 3, 7-8:30 PM
Final review	Tues, Mar 16, in the evening

**BRING STUDENT ID.** It will be checked at the exam.

You must write in nonerasable pen and avoid using white-out in order to be considered for a regrade. Your handwriting must be legible; we will disregard answers which cannot be deciphered.

### **Missed exams**

If you must miss an exam, you will be required to provide official documentation of an unavoidable emergency (e.g. serious illness, etc.). Without such documentation there will not be a make-up test, and you will receive a failing grade for that exam. Do not ask to reschedule an exam for any reason other than a *dire emergency*. In such a case and oral exam may be offered.

### **Regrades**

Only exams written in non-erasable pen will be considered for a regrade, and white-out may not be present on such exams. If an error has been made in the grading of your midterm, you may submit it to Dr. Gus within *three days* of distribution for a regrade. Do not go to a TA for a regrade, although you may want to have one of them explain the answer to you before you come to me. Your midterm must be submitted with a *written* description of the grading error. I will not entertain discussions of such appeals before they are made in writing. I will consider *no more than three* “potential” errors per exam. If I think the TA was too generous grading it, I reserve the right to *lower* your score. Finally, it is critical that you *read the key* before submitting your regrade. It will be posted on the web site when the graded exams are distributed.

### **Cheating**

Students are expected to do their own work, as outlined in the UCSD Policy on Academic Integrity. Cheating will not be tolerated, and I will fail any student caught engaging in academic dishonesty. All exams will be closed-book and closed-notes, so all personal materials must be stowed under your seat. Only exams written in nonerasible pen will be considered for regrades. Fifteen percent of the exams will be photocopied for comparison with submitted regrades. Because all exams are required for satisfactory completion of this course, any student caught cheating on an exam will receive a failing grade for the course. He/she may also be suspended from UCSD.

### **Adding and dropping the class:**

This class is still open. You may add the class on a first come, first served basis via WebReg during the first two full weeks of the quarter. If you have any problems, contact Bio Student Affairs, 534-0557.

Last day to add is Friday, Jan 15.

Last day to drop without a “W” is Jan 29.

Last day to drop with a “W” is Mar 5.

## Tentative class schedule

Date	Session	Topics	Required reading*	Recommended reading*
Tues, Jan 5	1	Introduction; Does AIDS matter?	151, 294b-303, 306-10, 314, 325b-327a, POV 7.1, SB 11.2, box 14.1	4-11, 344, 408-21
Thu, Jan 7	2	Statistical overview of the epidemic	202b-208a (not box 8.4), 277b-84	273, 292
Tues, Jan 12	3	film: <i>A Closer Walk</i>		
Thur, Jan 14	4	Modern history of AIDS epidemic	19-29	1-3
Tues, Jan 19	5	Origin of HIV	37b-38a, 63	38b-44
Thur, Jan 21	6	Does HIV cause AIDS?	30-37a, Snap 8.1, 182-183	
Tues, Jan 26	7	Basic biology review		
Thur, Jan 28	8	The Immune System		103-118
Tues, Feb 2	9	Virology	46-47a, 88	47b-54, 228
Thur, Feb 4	10	<b>MIDTERM</b>		
Tues, Feb 9	11	Virology	126b	119b-122
Thur, Feb 11	12	HIV testing	348-50, table 13-1, POI 13.2	379-80, 363-68
Tues, Feb 16	13	<b>QUIZ</b> HIV transmission	173-202, POV 9.1	209-17 (not box 8.5), 232-42
Thur, Feb 18	14	HIV transmission	242b-43, 249-50	245-48, 308, 328, table 9.1
Tues, Feb 23	15	<b>QUIZ</b> AIDS disease process	128-132a	132b-145
Thur, Feb 25	16	AIDS disease process	146-157a, box 7.4	167b-169a
Tues, Mar 2	17	Therapies	66-68, 222, 94-95, box 4.1 & 4.2, Snap 4.3 & 4.4	
Thur, Mar 4	18	Guest speakers: men with HIV		
Tues, Mar 9	19	Guest speakers: women & children	321	
Thur, Mar 11	20	Finish therapies; Vaccines	259	254b-261
Thur, Mar 18	--	<b>FINAL EXAM</b> (7-10 PM)		

\*Readings in *AIDS Update 2009*, Gerald Stine (2009) on reserve at the Science & Engineering Library in Geisel Library  
a = first column, b = second column, POV = point of view, SB = sidebar, Snap = snapshot, POI = point of information  
Additional required reading will be posted on the course web site, under "Supplemental Reading."

These are **required** readings and will be covered on the exams.

## Tips for success in BILD 36

**Come** to class and sit in the front.

**Review** your notes within 24 hours of the lecture.

Even more effective: rewrite (outline) your notes within 24 hour of the lecture.

**Review** the PowerPoint slides in conjunction with your lecture notes.

**Review** vocabulary. Practice writing the definitions. Say the unfamiliar words out loud until they come naturally.

**Do the reading** (including the supplemental material). If you bump into material that is too technically challenging, *don't get bogged down*. Skip it (temporarily). Return to the most difficult material later. Write notes in your book.

**Outline** the important points as you read. This will help you remember the flow of information and contextualize the details.

**Study** a little bit every day, or a few times per week. Repetition over time is the key to retaining information. Your goal is to establish new neural pathways in your memory and fire them often! Cramming does not accomplish this.

**Study** with other students, and choose those who are serious about academics.

**Take notes** during the videos. If you miss a video, go view it at video reserves at the Geisel library. Watch it twice.

**Go** to your discussion section and participate.

**Go** to the office hours of the TA's and the instructor. This will force you to review the material, in order to have questions to discuss.

**Go** to the review sessions.

If you are having academic difficulty, OASIS can help. They provide tutoring, as well as classes in study skills and time management. <http://oasis.ucsd.edu/>

If you are having personal difficulties, do not hesitate to seek help at Psychological and Counseling Services (which is free to students). They can help you get over many types of hurdles. [psychservices.ucsd.edu/resources\\_students\\_web/resources\\_students.html](http://psychservices.ucsd.edu/resources_students_web/resources_students.html)

Their self-help library covers many relevant topics, and can be accessed at [psychservices.ucsd.edu/self\\_help\\_library\\_web/self\\_help\\_library\\_home.html](http://psychservices.ucsd.edu/self_help_library_web/self_help_library_home.html)