

# AIDS: Science and Society

**BILD 36**

**Summer 2014**

**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: Monday 5:10 PM, Solis 111

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.

**TA**

Daniel McLaughlin     [d3mclaug@ucsd.edu](mailto:d3mclaug@ucsd.edu)  
office hours: Mondays, 4 PM, in Muir Biology 4155

**Course description**

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

**Book**

*HIV/AIDS Pandemic: Origins, Science, and Global Impact, second edition* ©2014  
published by Cognella Academic Press, distributed by University Readers

Copies will be available on reserve at the Biomedical Library.

**Discussion sections**

There will be 1 discussion section, meeting on both Mon AND Wed.

Section	Days	Time	Location	TA	Email
A01	Mon/Wed	3-3:50 PM	TM 102 1	Daniel McLaughlin	<a href="mailto:d3mclaug@ucsd.edu">d3mclaug@ucsd.edu</a>

In section you will view a film, review the lecture material and/or discuss the readings. There will be closed-book quizzes in section as scheduled below.

*Sections will start on Wed, July 2.*

**Formats for discussion sections**

Mon, June 30	no section	
Wed, July 2	film: <i>AIDS in Africa</i>	
Mon, July 7	quiz 1 on reading, pages 3-106	(26 pts)
Wed, July 9	quiz 2 on reading, pages 117-205	(26 pts)
Mon, July 14	quiz 3 on reading, pages 209-243	(26 pts)
Wed, July 16	no section today	
Mon, July 21	quiz 4 on HIV structure	(45 pts)
Wed, July 23	quiz 5 on HIV life cycle	(45 pts)
Mon, July 28	quiz 6 on reading, pages 275-307, 329-372, 377-387	(26 pts)
Wed, July 30	quiz 7 on reading, pages 395-448	(26 pts)

**Films**

Most films will be available for viewing through digital reserves (streaming) AND at the **Film and Video Library** in the basement of Geisel Library. However, they will not be available until the first day of class. The are listed under reserves for BICD 136. The password is **CG136**.

There is a “Films” page on the course web site, with outside links to some of the films. Starting the first day of class, there will also be a link to digital reserves. At that time, you will be able to access the films directly through the library reserves site as well.

You *must* access digital reserves from a UCSD computer or use a VPN. If you are prompted for a username, then you are not using a UCSD computer and are not using a VPN. There is a link on the “Films” page of the class web site with instructions for setting up a VPN.

Required films:

1. *A Closer Walk* (2003) 80 min (shown in lecture July 2)  
Profiles the impact of the AIDS epidemic in many countries.
2. *AIDS in Africa* (2000) 55 min (shown in discussion sections July 2)  
Describes the impact of the AIDS epidemic in Zimbabwe.
3. *The Age of AIDS* (2006) 4 hours  
History of the epidemic, in the U.S. and abroad.  
[www.pbs.org/wgbh/pages/frontline/aids/](http://www.pbs.org/wgbh/pages/frontline/aids/)
4. *Endgame – AIDS in Black America* (2012) 2 hours  
Describes the impact of HIV/AIDS on African-Americans.  
<http://www.pbs.org/wgbh/pages/frontline/endgame-aids-in-black-america/>  
(This film is not available through UCSD library. Access PBS directly.)
5. *Dealing with the Demon, part 3* (1997) 50 min  
Preventing the spread of HIV among IV drug users.

Optional films, available either through UCSD digital reserves, or online elsewhere:

6. *And the Band Played On* (1993) 140 min  
Dramatic depiction of early history of the AIDS epidemic.  
<http://vimeo.com/24278884>
7. *A Time of AIDS, part 1: The Zero Factor* (1992) 1 hour  
Early AIDS epidemiology, as the CDC tried to discern the nature of this new disease.
8. *A Time of AIDS, part 2: The Hunt for the Virus* (1992) 1 hour  
The race between Gallo and Montagnier to identify the causative agent
9. *A.B.C. Africa* (2005) 140 min  
AIDS orphans in Africa
10. *State of Denial* (2003) 80 min  
The struggle in South Africa for access to ARV's
11. *The Blood of the Yingzhou District* (2006) 40 min  
Documentary on the AIDS epidemic in rural China
12. *The Lazarus Effect* (2010) 32 min  
The positive impact of free antiretroviral therapy on HIV/AIDS patients in Africa  
[http://www.youtube.com/watch?v=116YH6xCN4c&playnext\\_from=TL&videos=9MDIVWaMB7g&feature=featured](http://www.youtube.com/watch?v=116YH6xCN4c&playnext_from=TL&videos=9MDIVWaMB7g&feature=featured)

### **Exams**

Unlike quizzes, the exams will be open-book. You may also bring hand-written notes, but nothing else. No electronics are allowed. Exams will include short answer, true/false, multiple choice, and essay questions. You will be accountable for **all material covered in lecture and all required reading**.

There will be exam questions pertaining to the **required films** (available online). 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.

**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.

Old exams will be posted on the course web site. Previous exams were closed-book exams, so they will likely be easier than what you should expect. **Review sheets** will be posted on the web site shortly before each exam, and the TA's will conduct **review sessions** the night before each exam:

1 <sup>st</sup> review session	Tues, July 15, 7:30-8:20 PM	Solis 111
2 <sup>nd</sup> review session	Thurs, July 31, 7:30-8:20 PM	Solis 111

Graded midterms will be available in the hallway of HSS 1145 (if you sign the waiver). Note that the external doors are locked after business hours. Otherwise you may pick up your exam from your TA. Graded final exams may be viewed by appointment with Dr. Gus, but may not be taken home.

**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 an 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 exam, you may submit it to Dr. Gus for a regrade *within 3 days* of when they are returned. Do not go to a TA for a regrade, although you should have one of them explain the answer to you before you come to me. Your midterm or final exam 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.

**Course grade**

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

2%	20 points	Attendance when special speakers come to class
22%	220 points	Quizzes
26%	260 points	Midterm
50%	500 points	Final exam

**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 quizzes will be closed-book and closed-notes, so all personal materials must be stowed under your seat. The midterm and final exam will be open-book. You may bring your book and any hand-written notes you like. Only exams written in nonerasible pen will be considered for regrades. 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.

## Tentative class schedule

Date	Session	Topics	Required reading in <i>HIV/AIDS Pandemic</i> *
Mon, June 30	1	Introduction Why does AIDS matter? Global impact	pages 3-36 and 81-106 (49 pgs)
Wed, July 2	2	film: <i>A Closer Walk</i> Statistical overview of AIDS epidemic	pages 39-77 and 117-152 (63 pgs)
Mon, July 7	3	Modern history of the AIDS epidemic Epidemiology, Origin of HIV	pages 155-205 (38 pgs)
Wed, July 9	4	Does HIV cause AIDS? The Immune System	pages 209-243 (31 pgs)
Mon, July 14	5	Biology of HIV	pages 247-262 (16 pgs)
Wed, July 16	6	<b>MIDTERM</b> (first half of class) HIV testing (second half of class)	page 267-272 (6 pgs)
Mon, July 21	7	HIV transmission/Prevention	pages 275-307 and 329-335 (33 pgs)
Wed, July 23	8	HIV transmission/Prevention	pages 337-372 and 377-387 (41 pgs)
Mon, July 28	9	AIDS disease process Therapies	pages 395-448 (50 pgs)
Wed, July 30	10	Guest speakers – men with HIV Guest speakers – women with HIV	
Fri, Aug 1	--	<b>FINAL EXAM</b> (3-6 PM)	

\*Within the assigned pages, there are pages which are title pages, contain lists of references, or are blank. Next to the assigned pages I have listed the actual number of pages of text which are included, so you can plan out your reading schedule.

On average, there are 65 pages of reading per week required during summer session. Plan ahead and pace yourself.

When reading material dense with numbers (e.g. statistics) do NOT focus on learning the numbers! Instead, focus on the trends.

Think about what the numbers are telling you about what is happening in the world.

Numbers given in lecture supersede numbers in the reading.

## **BILD 36 Web site**

<http://classes.biology.ucsd.edu/bild36.SU1.14>

(The “SU” must be in capital letters.)

The username is **bild36su114** and the password is **Maraviroc**.

On the web site you will find announcements, photos of TA’s, information on sections/reviews/office hours, optional reading, information on films, study aids, animations, PowerPoint slides from lectures, useful links, information on HIV testing, volunteer opportunities, and more!

Troubleshooting:

If you have problems accessing the web site, you may have typed the URL incorrectly. You may click directly on the link above.

Be sure that you type the username and password EXACTLY as they are presented above. Alternatively, cut and paste from this document.

If it still does not work, try using different web browsers (although Internet Explorer may not be compatible with the web pages).

If your proxy is on, try turning it off.

Also you may set up VPN, which is a free download from <http://blink.ucsd.edu/technology/network/connections/off-campus/VPN/index.html> By running this application (vpn) it makes your computer look like it is on campus, which will put you into the UCSD only sites. The instructions on the download page are very good as to how to load and use VPN. PLEASE NOTE though, that a VPN should not be needed, and most students access the class web site without using one.

## 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 and handouts in conjunction with your lecture notes.

**Keep up with the reading.** Pace yourself with a reading schedule. 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 textbook.

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

**Use a dictionary.**

**Take notes** during the films. If you miss a film, view it at digital reserves. Watch it twice.

**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.

**Go** to a discussion section. If a paper will be discussed, read it *before* going.

**Go** to the office hours of the TA's and the instructor. This will encourage 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 Counseling and Psychological Services (which is free to students). They can help you get over many types of hurdles. <http://caps.ucsd.edu/>

Their self-help library covers many relevant topics, and can be accessed at <http://caps.ucsd.edu/selfhelp.html>