

AIDS: Science and Society

BICD 136

Spring 2016

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office hours: Tuesday, 2:15-3:15, HSS 1145L

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 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. Recommended: BILD 1 and BILD 2.

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 and the Geisel library.

Podcast

This course will be podcast.

Discussion sections

Sections will start on Mon, April 4.

Section	Days	Time	Location	IA	Email
A01	Mon	10-10:50AM	APM 2301	Kaylin Muskat	kmuskat@ucsd.edu
A02	Mon	11-11:50AM	APM 2301	Kaylin Muskat	kmuskat@ucsd.edu
A03	Mon	9-9:50AM	HSS 2154	Timothy Bond	tsbond@ucsd.edu
A04	Mon	6-6:50PM	APM 2301	Justin Abadejos	jabadejo@ucsd.edu
A05	Mon	7-7:50PM	APM 2301	Vivian Dong	vydong@ucsd.edu
A07	Tue	5-5:50PM	SEQUO 148	PeiXi Chen	pec001@ucsd.edu
A08	Tue	6-6:50PM	SEQUO 148	PeiXi Chen	pec001@ucsd.edu
A09	Wed	3-3:50PM	WLH 2112	Christina Lun	chlun@ucsd.edu
A10	Wed	4-4:50PM	WLH 2112	Christina Lun	chlun@ucsd.edu
A11	Wed	8-8:50AM	WLH 2206	Dustin Phan	dlp003@ucsd.edu
A12	Fri	2-2:50PM	CNTR 207	Amy Chinn	amchinn@ucsd.edu
A13	Fri	3-3:50PM	CNTR 207	Amy Chinn	amchinn@ucsd.edu

In section you may view a film, review the lecture material and/or discuss the readings. There will also be quizzes (~15-20 minutes each) in section, as scheduled on the next page.

Formats for discussion sections

Week 1	Mar 28 - Ap 1	no section	
Week 2	April 4-8	quiz 1 on reading, pages 3-36, 81-106, 117-130 start viewing <i>AIDS in Africa</i>	21 pts
Week 3	April 11-15	quiz 2 on reading, pages 39-77, 131-152 finish viewing <i>AIDS in Africa</i>	21 pts
Week 4	April 18-22	quiz 3 on reading, pages 155-191	21 pts
Week 5	April 25-29	quiz 4 on reading, pages 193-226	21 pts
Week 6	May 2-6	review exam and lecture material	
Week 7	May 9-13	quiz 5 on HIV structure	45 pts
Week 8	May 16-20	quiz 6 on HIV life cycle	45 pts
Week 9	May 23-27	quiz 7 on reading, pages 267-307, 329-391	21 pts
Week 10	May 30 - Jun 3	quiz 8 on reading, pages 395-474	21 pts

Films

Most films will be available for viewing through the UCSD library digital reserves (streaming).

There is a “Films” page on the course web site, with outside links to some of the films. There is also a link to the UCSD library reserves.

You *must* access UCSD digital reserves from the UCSD protected network or use a VPN. There is a link on the “Films” page of the class web site with instructions for setting up a VPN.

How to study the films: The midterm and final exam will test you on material from the films. You should take notes when you watch them, and review your notes before the exams. Do NOT worry about exact dates, numbers or statistics in the films. Instead, focus on the stories, history (major events and general time frame), prominent persons, policy issues, causes of the spread of the epidemic, impact of the epidemic, responses to the epidemic, etc. For each part, or chapter, of the story you should be able to say something intelligent about what the message was. What did the film maker want to communicate; what did they want you to get out of the film? There are old exams posted, on which you can see examples of film/reading questions from previous quarters.

Required films:

1. *A Closer Walk* (2003) 80 min (shown in lecture April 5)
Profiles the impact of the AIDS epidemic in many countries.
 2. *AIDS in Africa* (2000) 55 min (shown in discussion sections wk 2 & 3)
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/
- } covered on the midterm

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.
- } covered
on the
final exam

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.
<https://vimeo.com/85778803>
7. *A Time of AIDS* (1992)
Part 1: The Zero Factor 1 hour
Early AIDS epidemiology, as the CDC tried to discern the nature of this new disease
Part 2: The Hunt for the Virus 1 hour
Follows the scientific detective story to discover the virus that causes AIDS
8. *A.B.C. Africa* (2005) (140 minutes)
Documents the plight of AIDS orphans in Africa.
9. *State of Denial* (2003) 80 min
The grass-roots struggle in South Africa for access to ARV's
10. *Blood of Yingzhou District* (2006) 40 min
Documentary on the AIDS epidemic in rural China
11. *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

Exams

Note that the midterm exam will take place in the evening, outside normal class hours. It will be **Thursday, April 28, 7:30-9PM!** Put this on your schedule now.

Exams and quizzes 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, handouts, and all required reading.**

There will be exam questions pertaining to the **required films** (available online). There will not be exam questions about presentations by guest speakers.

The final exam will be comprehensive for the lecture material, with emphasis on the last part of the course. The final exam will not cover readings/films from before the midterm.

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

How can I succeed in BICD 136?

1. **Read** the assigned pages before lecture. You will understand the lectures better and learn more. The lecture will be related to the assigned reading, but will expand on the topic. Nevertheless, you are accountable for all reading, which will be covered on the exams and quizzes.

Keep up with the reading. Pace yourself with the 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.

2. **Outline** the important points as you read. This will help you remember the flow of information and contextualize the details. You will not remember all the reading unless you take notes. Use index cards, or a notebook, to summarize the important points.
3. **Look up words** you don't understand in the glossary, a dictionary, or online.
4. **Come** to class and sit toward the front.
5. **Listen** to podcast.
6. **Review** your notes within 24 hours of the lecture.

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

There will be material presented in lecture that is not in the textbook. You are accountable for all lecture material.

7. **Review** the PowerPoint slides with your lecture notes. PowerPoint slides will NOT contain the instructor's notes. They will contain announcements, illustrations, graphs, diagrams, and photos which augment the lecture. They will be posted after each lecture. You are accountable for everything in the PowerPoint slides.
8. **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.
9. **Study** with other students, and choose those who are serious about academics. Make up questions and quiz each other. Anticipate potential exam questions. This is a strategy that has been demonstrated to increase student learning.
10. **Take notes** during the films. If you have time, you may watch a film twice!
11. **Go** to your discussion section. The quizzes there are worth 22% of your grade. Further, there will be opportunities to review the material and ask questions.
12. **Go** to the office hours of the IA's and the instructor. This will encourage you to review the material, in order to have questions to discuss.
13. **Go** to the review sessions.
14. Utilize **study aids** provided on the course web site.
15. If you are having academic difficulty, OASIS may help. They provide tutoring, as well as classes in study skills and time management. <http://oasis.ucsd.edu/>
16. 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 of resources covers many relevant topics, and can be accessed at <http://caps.ucsd.edu/selfhelp.html>

Academic integrity

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/quizzes will be closed-book and closed-notes, so all personal materials must be stowed under your seat. Only exams/quizzes written in nonerasable pen will be considered for regrades. Exams will be photocopied for comparison with submitted regrades. Because all exams/quizzes are required for satisfactory completion of this course, any student caught cheating on an exam/quiz will receive a failing grade for the course. He/she may also be suspended from UCSD.

BICD 136 Web site

<http://classes.biology.ucsd.edu/bicd136.SP16>

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

The username is **bicd136sp16** and the password is **Truvada**.

On the web site you will find announcements, photos of IAs, 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).

Important note: If you go to the web site and do NOT see materials that you know were loaded or updated, your web browser may be automatically displaying the cached page that was previously viewed. You may refresh the page by first emptying your cache. On a Mac your do this by hitting the “command,” “option,” and “E” buttons simultaneously. If you have a PC, there is a way of doing this, but you will have to look it up.

Lecture/reading schedule on next page →

Tentative lecture schedule

Date	Session	Topics	Required reading*	pages
Tues, Mar 29	1	Introduction; Why does AIDS matter?	3-36	29
Thu, Mar 31	2	Global impact	81-106, 117-130	34
Tues, Apr 5	3	film: <i>A Closer Walk</i>	131-152	16
Thur, Apr 7	4	Statistical overview of AIDS epidemic	39-77	35
Tues, Apr 12	5	Modern history of the AIDS epidemic	155-164	9
Thur, Apr 14	6	Epidemiology, Origin of HIV	167-191	18
Tues, Apr 19	7	Origin of HIV	193-205	12
Thur, Apr 21	8	Does HIV cause AIDS?	209-226	18
Tues, Apr 26	9	The Immune System	229-264	12
Thur, Apr 28	10	Review session for midterm		
Fri, Apr 28		MIDTERM (7:30-9PM)		
Tues, May 3	11	Biology of HIV	247-260	12
Thur, May 5	12	Biology of HIV	261-264	4
Tues, May 10	13	HIV testing	267-272	6
Thur, May 12	14	HIV transmission/Prevention	275-307, 329-340	37
Tues, May 17	15	HIV transmission/Prevention	341-391	42
Thur, May 19	16	AIDS disease process	395-422	27
Tues, Mar 24	17	AIDS disease process HIV therapies	423-448	31
Thur, May 26	18	HIV therapies	449-474	25
Tues, May 31	19	Guest speakers – men with HIV		
Thur, Jun 2	20	Guest speakers – women with HIV		
Mon, Jun 6	--	FINAL EXAM (11:30 AM)		

This reading schedule indicates the portions of the book that correspond to each lecture. It is a suggested reading schedule to help you stay on track with the lecture topics and finish all the readings in a timely manner. All assigned reading will be covered on section quizzes and on the exams, even if it is not reiterated in lecture.

On average, there are 40 pages of reading per week required during the first 9 weeks of the quarter. Plan ahead and pace yourself. There is no reading assigned during week 10.

When reading material dense with numbers (e.g. statistics) do NOT focus on learning the numbers! You will be hopelessly bogged down. 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.