

**University of Florida**  
**College of Public Health & Health Professions Syllabus**  
**PHC 6009: Biology and Epidemiology of HIV/AIDS (3 credits)**  
Semester: Summer 2015  
Delivery Format: Online  
E-learning in Canvas

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Instructor Name: Cindy Prins, PhD, MPH  
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Office Hours: By appointment  
Preferred Course Communications (e.g. email, office phone): email

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### **Prerequisites**

PHC 6001 – Principles of Epidemiology, or equivalent course with instructor approval

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## **PURPOSE AND OUTCOME**

### **Course Overview**

The overall goals of this course are: 1) To provide a basic understanding of the biological process by which HIV causes infection and AIDS, including the physiologic processes and cellular process involved in HIV infection and treatment; 2) To promote the development of skills in finding and interpreting current epidemiologic data on HIV/AIDS, including risk factors, comorbid health issues, special populations, and health outcomes; 3) To present an overview of HIV prevention strategies and their effectiveness; 4) To discuss issues specific to the epidemiology of HIV/AIDS in the rural south

### **Course Objectives and/or Goals**

Upon successful completion of the course, students should be able to:

- Describe the emergence of HIV as a new pathogen, particularly within the US
- Discuss the pathogenesis of HIV and its effect on the immune system
- Identify current treatment strategies for HIV infection
- Identify current behavioral and biomedical strategies to prevent HIV transmission
- Analyze and interpret epidemiologic data related to HIV/AIDS to measure the burden of disease in their respective geographic areas and among populations of interest
- Develop epidemiologic studies related to the prevention and treatment of HIV/AIDS overall and within specific groups of persons.
- Explain the role of public health in the prevention and management of HIV in Florida
- Apply knowledge of legal and ethical issues related to HIV-infected individuals and prevention of infection

### **How to Succeed in This Course**

The summer session is shorter than other semesters but the course content is not shorter so the pace of this course will be fast. It's critical that you keep up with the schedule. This course is not self-paced so be sure to mark the assignment due dates, quiz dates, and book discussion date in your calendar and participate in them as scheduled. You are expected to have reliable internet access for this course. If you plan to go out of town then you'll need to plan ahead to ensure that your assignments are submitted on-time. The final paper in this course is a critical element, so start early, review your epidemiology study designs, and follow the paper guidelines.

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## DESCRIPTION OF COURSE CONTENT

### Topical Outline/Course Schedule

Week	Dates	Topic	Requirement	Due date	% of final grade
1	5/11 – 5/15	Intro and History	1. Reflection Paper	5/16	2%
2	5/16 – 5/22	<ul style="list-style-type: none"> <li>• Study designs and HIV</li> <li>• HIV/AIDS surveillance</li> </ul>	1. Study Description Paper 2. State Surveillance Report	5/23 5/23	2% 2%
3	5/23 – 5/29	<ul style="list-style-type: none"> <li>• Virology basics and intro to biology of HIV</li> <li>• HIV and the immune system</li> </ul>	1. Research Paper Question 2. Homework	5/30 5/30	5% 2%
4	5/30 – 6/5	• Vaccines	1. Homework	6/6	2%
5	6/6 – 6/12	• No Lecture	1. Outline of Research Paper 2. Quiz #1	6/13 6/14	5% 10%
6	6/13 – 6/19	<ul style="list-style-type: none"> <li>• Biomedical prevention strategies and behavioral prevention strategies</li> <li>• Clinical overview of HIV/AIDS management and treatment</li> </ul>	1. Homework #1  2. Homework #2	6/20 6/20	2% 2%
7	6/20 – 6/26	Summer Break			
8	6/27 – 7/3	• HIV testing	1. Rough Draft of Paper 2. Homework	7/4 7/4	5% 2%
9	7/4 – 7/10	• No Lecture	1. Book Discussion Writing Assignment 2. Quiz #2	7/11 7/12	5% 10%
10	7/11 – 7/17	<ul style="list-style-type: none"> <li>• HIV in the rural south</li> <li>• Book Discussion</li> </ul>	1. Peer evaluation of rough drafts 2. Book Discussion	7/18 Times TBA	5% 5%
11	7/18 – 7/24	• Infections associated with HIV/AIDS, including TB, HCV, and STD's; or HIV and TB	1. Homework	7/25	2%
12	7/25 – 7/31	<ul style="list-style-type: none"> <li>• MSM and HIV</li> <li>• Substance abuse and HIV</li> <li>• Worldwide epidemiology of HIV/AIDS</li> </ul>	2. World Country Profile	8/1	2%
13	8/1 – 8/7	<ul style="list-style-type: none"> <li>• The AIDS-free generation</li> <li>• Quiz 3</li> </ul>	1. Final Paper due  2. Quiz #3	8/7 8/7	20% 10%

### Course Materials and Technology

Required course readings will be drawn from multiple open-access sources and posted on the course website.

The required book for the book discussion is *My Own Country*, by Abraham Verghese, (ISBN 0-679-75292-7).

For technical support for this class, please contact the UF Help Desk at:

- [Learning-support@ufl.edu](mailto:Learning-support@ufl.edu)
- (352) 392-HELP - select option 2
- <https://lss.at.ufl.edu/help.shtml>

## ACADEMIC REQUIREMENTS AND GRADING

### Quizzes

There will be three online quizzes during the semester to assess overall understanding of the material presented during lectures. The quizzes will be open book/open note, with a mixed format of short answer, long answer, and multiple choice. Each quiz is worth 10% of the course grade.

### Course Discussions

There will be nine **homework** assignments during the semester, each worth 2% of the course grade. Instructions for completing homework assignments can be found on the Canvas site

### Book Discussion

All students will read *My Own Country*, by Abraham Verghese, (ISBN 0-679-75292-7) for the book discussion during week 10 of the course. Write and answer three **book discussion questions** that we will use during our **group discussion**. You will participate in a live book discussion during the week of July 14 to July 18. The book discussion questions are worth 5% of your grade and your participation in and contribution toward the book discussion is worth 5% of your grade.

### Final Project

Students will design an original epidemiologic study related to HIV/AIDS prevention, transmission, treatment, potential associations in high-risk groups, or other topics as approved by the instructor. As part of this requirement, students will submit an **Epidemiology Study Description Paper (2%)**, a **Research Paper Question (5%)**, an **Outline of Research Paper (5%)**, a **rough draft (5%)** and a **Peer evaluation of each other's rough drafts (5%)**. The **final project (20%)** will be the write-up of the study proposal, including one to two study aims, a brief literature review relevant to the proposed study, and a description of the proposed study. The write-up should be 5 to 8 pages, double-spaced, and is due on August 7. More detail will be provided in the Canvas course site.

### Grading

Requirement	Due date	% of final grade
Week 1 Reflection Paper	May 15	2%
Week 2 Epidemiology Study Description Paper	May 22	2%
Week 2 State Surveillance Report	May 22	2%
Week 3 Research Paper Question	May 29	5%
Week 3 Homework	May 29	2%
Week 4 Homework	June 5	2%
Week 5 Outline of Research Paper	June 12	5%
Week 5 Quiz #1 (open 6/12 – 6/14)	June 19	10%
Week 6 Homework	June 19	2%
Week 6 Homework #2		2%
Week 7 – Summer Break		
Week 8 Rough Draft of Paper	July 3	5%
Week 8 Homework	July 3	2%

Week 9 Quiz #2 (open 7/9 – 7/11)	July 11	10%
Week 9 Book Discussion Writing Assignment	July 10	5%
Week 10 Book Discussion	Week of 7/14 to 7/18	5%
Week 11 Homework	July 24	2%
Week 12 Peer evaluation of rough drafts	July 31	5%
Week 12 World Country Profile	July 31	2%
Week 13 Quiz #3 (open 8/4 – 8/7)	August 7	10%
Week 13 Final Project Paper Due	August 7	20%

Point system used (i.e., how do course points translate into letter grades).

Points earned	93%-100%	90%-92%	87%-89%	83%-86%	80%-82%	77%-79%	73%-76%	70%-72%	67%-69%	63%-66%	60%-62%	<60%
Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E	WF	I	NG	S-U
Grade Points	4.0	3.67	3.33	3.0	2.67	2.33	2.0	1.67	1.33	1.0	0.67	0.0	0.0	0.0	0.0	0.0

For greater detail on the meaning of letter grades and university policies related to them, see the Registrar's Grade Policy regulations at:

<http://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

#### Policy Related to Make up Exams or Other Work

Make-up exams or make-ups of assignments will only be given in the event of illness that is documented by a physician.

Please note: Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from LSS when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail me promptly (within one hour) after the technical difficulty if you wish to request a make-up.

#### Policy Related to Required Class Attendance

Students are expected to access online lectures during the week they are assigned, to prepare for and participate in online discussions in a professional manner, and to complete quizzes and assignments by the due date posted.

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#### Academic Integrity

Students are expected to act in accordance with the University of Florida policy on academic integrity. As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge:

**“We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.”**

You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied:

**“On my honor, I have neither given nor received unauthorized aid in doing this assignment.”**

It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will

not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For additional information regarding Academic Integrity, please see Student Conduct and Honor Code or the Graduate Student Website for additional details:

<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>  
<http://gradschool.ufl.edu/students/introduction.html>

Please remember cheating, lying, misrepresentation, or plagiarism in any form is unacceptable and inexcusable behavior.

### **Online Faculty Course Evaluation Process**

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

## **SUPPORT SERVICES**

### **Accommodations for Students with Disabilities**

If you require classroom accommodation because of a disability, you must register with the Dean of Students Office <http://www.dso.ufl.edu> within the first week of class. The Dean of Students Office will provide documentation of accommodations to you, which you then give to me as the instructor of the course to receive accommodations. Please make sure you provide this letter to me by the end of the second week of the course. The College is committed to providing reasonable accommodations to assist students in their coursework.

### **Counseling and Student Health**

Students sometimes experience stress from academic expectations and/or personal and interpersonal issues that may interfere with their academic performance. If you find yourself facing issues that have the potential to or are already negatively affecting your coursework, you are encouraged to talk with an instructor and/or seek help through University resources available to you.

- The Counseling and Wellness Center 352-392-1575 offers a variety of support services such as psychological assessment and intervention and assistance for math and test anxiety. Visit their web site for more information: <http://www.counseling.ufl.edu>. On line and in person assistance is available.
- You Matter We Care website: <http://www.umatter.ufl.edu/>. If you are feeling overwhelmed or stressed, you can reach out for help through the You Matter We Care website, which is staffed by Dean of Students and Counseling Center personnel.
- The Student Health Care Center at Shands is a satellite clinic of the main Student Health Care Center located on Fletcher Drive on campus. Student Health at Shands offers a variety of clinical services. The clinic is located on the second floor of the Dental Tower in the Health Science Center. For more information, contact the clinic at 392-0627 or check out the web site at: <https://shcc.ufl.edu/>
- Crisis intervention is always available 24/7 from:  
 Alachua County Crisis Center  
 (352) 264-6789  
<http://www.alachuacounty.us/DEPTS/CSS/CRISISCENTER/Pages/CrisisCenter.aspx>

Do not wait until you reach a crisis to come in and talk with us. We have helped many students through stressful situations impacting their academic performance. You are not alone so do not be afraid to ask for assistance.