

Goals:

The goal of this course is to teach how the family of diseases called cancer affects the normal function of life. In accomplishing this goal we will focus primarily on the biological aspects of cancer but will also introduce some psychosocial and medical viewpoints as well.

Some of the topics that will be covered in this course include:

- ◆ Cancer is a family of diseases, not just one disease
- ◆ The stigma of cancer
- ◆ Malignant cells are cells which have been transformed from a more differentiated state to a more embryonic one
- ◆ Importance of early detection in treating cancer
- ◆ Role of environmental agents in causing cancers
- ◆ Role of genetics and viruses in some forms of cancer

Format:

Course will include lectures on general introduction to cell biology as well as recent developments in cancer research. In addition, we will view some short dealing with clinical research and the nature of clinical trials.

Text:

**How Cancer Works by Lauren Sompayrac** published by Jones and Bartlett, 2004

**Lectures on website:** <http://mentor.lifesci.ucsb.edu> **PW: leukemia**

Between one third and one half of the exams will be based on the readings

Exams and grading:

- ◆ Optional grading (letter or P/NP)
- ◆ 2 exams, a midterm and a final will include both lecture material as well as assigned reading
- ◆ midterm worth 100 points and final exam 200 points (emphasis will be on last part of course though exam is cumulative)
- ◆ Exams will be a combination of short answer (fill in, multiple choice) and short essays

Office hours:

To be announced, though I will always remain available after lectures  
My office is in Bren Hall – Room 4013. Phone number is 893-2162

Cancer Websites:

[www.oncolink.com](http://www.oncolink.com)

<http://www.cancernet.nci.nih.gov>

[www.cancerguide.org](http://www.cancerguide.org)

[www.wellweb.com/cancer/cancer.htm](http://www.wellweb.com/cancer/cancer.htm)

## Syllabus – Fall 2004

27 Sept. (M)	Introduction - Overview of Course	
29 SEPT. (W)	Epidemiology of Cancers Cancer in Populations	
04 OCT. (M)	Definitions and Classifications of Cancer Range of Cancers Disease Process	
06 OCT (W)	Metastasis and Angiogenesis	
11 OCT (M)	Continued	
13 OCT (W)	Molecular Biology of Cancer	
18 OCT (M)	More on Genes	
20 OCT(W)	Cancer Treatments – how they work	
25 OCT (M)	Diagnosing the Patient	
27 OCT (W)	Pathology of Cancer	
01 NOV (M)	<b>MIDTERM EXAM</b>	Lectures 1-4
03 OCT (W)	More Pathology	
08 NOV (M)	Women's Cancers Breast and Gynecological	
10 NOV (W)	Men's Cancers Testicular and Prostate Colorectal Cancer	
15 NOV (M)	Pediatric Cancers Leukemias and Lymphomas	
17NOV (W)	Lung Cancers	
22 NOV (M)	Skin Cancers	
24 NOV (W)	Turkey Preparation – no class	
29 NOV (M)	Psycho-Social Aspects of Cancer	
01 DEC (W)	Dying with Cancer	
01 DEC	<b>SUMMARY AND REVIEW</b>	Lectures 5-9

**Final Exam – TUESDAY, DECEMBER 4-7pm**