

Biology of Aging
BIOL 327
Syllabus, Fall 2009
Class Meets TR in SB G 69

8-25	Introduction and Definitions	Pages 1-20
8-27	Molecules and Cells of the Body	Pages 22-40
9-1	Molecules and Cells of the Body	Pages 22-40
9-3	Genetics and Cell Division	Pages 35-40
9-8	Biological Theories of Aging	Pages 40-48
9-10	Exam # 1	
9-15	System Alterations with Age: Integumentary System	Pages 49-56
9-17	Integumentary System	Pages 56-66
9-22	Circulatory System	Pages 68-80
9-24	Circulatory System	Pages 80-92
9-29	Respiratory System	Pages 93-114
10-1	Nervous System	Pages 115-129
10-6	Nervous System	Pages 129-147
10-8	Exam # 2	
10-13	Fall Break- no class ☺	
10-15	Eyes	Pages 148-164
10-20	Ears	Pages 164-172
10-22	Muscles	Pages 173-188
10-27	Skeletal System	Pages 189-205
10-29	Digestive System	Pages 207-232
11-3	Diet and Nutrition	Pages 234-251
11-5	Diet and Nutrition	Pages 234-251
11-10	Exam # 3	
11-12	Urinary System	Pages 253-263
11-17	Reproductive System (Male)	Pages 265-274
11-19	Reproductive System (Female)	Pages 275-290
11-24	Thanksgiving	
11-26	Thanksgiving	

12-1	Endocrine System	Pages 291-310
12-3	Immune System	Pages 312-325
12-8	Immune System	Pages 312-325
12-10	The Future of Aging	Pages 327-330
12-17	Final Exam (3:00- 4:15)	

Professor: Elliott J. Blumenthal, Dept Biology, SB 390, 481-6004, Blumenth@ipfw.edu =e-mail, and web page can be found at <http://users.ipfw.edu/Blumenth/>

Required Text: “Human Aging: biological perspectives”, Latest Edition, Augustine Gaspar Digiovanna, 2000.

Class Requirements and Expectations:

Each student is expected to attend and contribute to **all** classes. The format of the class will be both lecture and discussion and all students will need to ask critical thinking questions related to the assignment. Current newspaper/magazine and scientific articles will be brought into class for discussions.

Major Assignment: The major project for the class will be to prepare a presentation on the biological aspects of aging that is appropriate for education of individuals within Nursing and Residential Living Homes. The class will be divided into groups of 4 students each and each group will prepare and present their presentation prior to the presentation at the Health Fair or Adult Home. This assignment is meant to help Seniors understand what is happening to their bodies and minds during the aging process, and how they might be able to lead a high “quality of life” while aging occurs. Topics that will be accepted will include but not be limited to the following: Alzheimer’s Disease, Dietary considerations, Vitamins, Holistic approaches (Myth vs Reality), Changes in the following systems [(Sight and Hearing), (Muscle and Bone), (Reflexes and Balance), (Immune), (Cancer and Disease), (Arthritis and Pain)]

Grading:

Exams (4)–	75 points/exam	= 300 points
Class attendance–	30 sessions 1 point/class	= 30 points
Class participation–	up to 2 points/class	= 60 points
Group Assignment-	up to 50 points	= 50 points
	<i>Taken as an average of how other students within your group have graded you!</i>	

Total points = 440 points

A= 396-440

B= 352-395

C= 308-351

D= 264-307