

BIOTECHNOLOGY

Course Syllabus

Date	Topic	Oral Presentations	Reading Assignment
Jan 17	Introduction		Chapter 1
Jan 19	DNA, RNA		Chapter 2
Jan 24	Protein Synthesis		
Jan 26	Gene Patents		Additional #1, #2
Jan 31	Quiz 1 , Genetics		Chapter 3, 4
Feb 2	Mutations and Genetic Diseases		Chapter 5
Feb 7	Biological Control	Genetic screening	Chapter 7
Feb 9	Cellular Regulation	Human Genome Project	Additional #3
Feb 14	Exam #1		
Feb 16	Genetic Engineering		Chapter 8, Additional #4
Feb 21	Recombinant DNA	Genetic Engineering	
Feb 23	Medical Applications		
Feb 28	Stem cells	Stem cells	Chapter 9, Additional #5, #6
Mar 2	Gene therapy	Gene therapy	Chapter 10, Additional #7
Mar 7-9	Spring Break		
Mar 14	Video – Brain transplant		
Mar 16	Quiz 2 , Immune system – overview		Chapter 11
Mar 21	Cellular basis of Immune Function		Additional #8
Mar 23	Monoclonal antibodies		Chapter 12
Mar 28	Antibody applications	Medical research	
Mar 30	HIV and AIDS – introduction	AIDS	Chapter 13, Additional #9
Apr 4	Drug development	Cancer therapies	Additional #10
Apr 6	Cancer – overview		Chapter 14, Additional #11
Apr 11	Exam #2		
Apr 13	Reproduction – overview		Additional #12, #13
Apr 18	Reproductive Technologies	Embryo selection	
Apr 20	Cloning	Human cloning	
Apr 25	Quiz 3 , Performance Enhancement	Cognitive enhancement	Additional #14
Apr 27	Biotechnology in developing countries		Chapter 16
May 5	Subcommittee Presentations 1:30 – 4:00 pm (Final)		

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Last updated 1/06