Course Outline

585.751: Immunoengineering

This outline provides an overview of the course and assignments by week. Each module runs from **Wednesday to Tuesday night (11:59 pm EST)**, for a period of seven (7) days (1 week). Due dates for readings and other assignments may be referred to by the day of the module week in which they are due. For example, if a reading assignment is to be completed by Day 3 and the module started on Tuesday, then the reading assignment should be completed by Thursday.

Please remember to check the calendar for specific due dates.

Module	Module Title	Assignments
Module 1	Immunoengineering: A New Frontier	IntroductionsModule DiscussionSyllabus ReviewPre-test
Module 2	Immune Response: Pathogens	 Module Discussion Module Assignment Quiz Project Selection
Module 3	Immune Response: Autoimmunity, Allergens	 Module Discussion Module Assignment Quiz Project Background Research
Module 4	Immune Response: Cancer	 Module Discussion Module Assignment Quiz Project: Draft of Significance
Module 5	Immune Response: Biomaterials	 Module Discussion Module Assignment Quiz Project: Draft of Significance
Module 6	Midterm and Immune System Review	 Module Discussion Midterm Project: Previous Engineering Approaches
Module 7	Engineering Therapies: Pathogens	 Module Discussion Module Assignment Project: Previous Engineering Approaches



Module	Module Title	Assignments	
Module 8	Engineering Therapies: Autoimmunity, Allergens	 Module Discussion Module Assignment Project: Draft of Innovation 	
Spring break			
Module 9	Engineering Therapies: Cancer	 Module Discussion Module Assignment Project: Experimental Approach Outline 	
Module 10	Engineering Therapies: Biomaterials and Implants	 Module Discussion Module Assignment Project: Identifying Supporting Data/Figures/Potential Pitfalls 	
Module 11	Engineering Tools: Immunoprofiling	Module DiscussionModule AssignmentProject: Rough Draft	
Module 12	Engineering Therapies: Tissue Engineering	Module DiscussionModule Assignment	
Module 13	Engineering Tools: Modeling	Module AssignmentProject: Pitch presentation	
Module 14	Final Presentations	Project: Final Proposals	

