Immunology (Bio 128)- Syllabus Addendum for Prospective Teachers Goldsby, R. A., (2002). *Immunology*, 5th Edition. W.H. Freeman & Co		
Chapter	**Biology/Life Science Subject Matter Requirements**	**Academic content standards for kindergarten through grade twelve, adopted by the California State Board of Education**
Ch 10-T-Cell maturation, activation, and differentiation	1.5b Compare cell mediated and humoral responses to infection	*Science Content Standards for California Public Schools, Grades 9-12, Biology/Life Sciences: 10d Students know there are important differences between bacteria and viruses with respect to their requirements for growth and replication, the body's primary defenses against bacterial and viral infections, and effective treatments of these infections.*
Ch 11-B-Cell generation, activation and differentiation	1.5a Explain the humoral response to infection	*Science Content Standards for California Public Schools, Grades 9-12, Biology/Life Sciences: 10b Students know the role of antibodies in the body's response to infection; 10f Students know the roles of phagocytes, B-lymphocytes, and T-lymphocytes in the immune system*
	1.5b Compare cell mediated and humoral responses to infection	*Science Content Standards for California Public Schools, Grades 9-12, Biology/Life Sciences: 10d Students know there are important differences between bacteria and viruses with respect to their requirements for growth and replication, the body's primary defenses against bacterial and viral infections, and effective treatments of these infections*
Ch 12-Cytokines	1.5b Compare cell mediated and humoral responses to infection	*Science Content Standards for California Public Schools, Grades 9-12, Biology/Life Sciences: 10d Students know there are important differences between bacteria and viruses with respect to their requirements for growth and replication, the body's primary defenses against bacterial and viral infections,*

		and effective treatments of these infections.
Ch 18-Vaccines	1.5c Explain how vaccination works and distinguish among variables affecting success rate	*Science Content Standards for California Public Schools, Grades 9-12, Biology/Life Sciences: 10c Students know how vaccination protects an individual from infectious diseases; 10d Students know there are important differences between bacteria and viruses with respect to their requirements for growth and replication, the body's primary defenses against bacterial and viral infections, and effective treatments of these infections*
Ch 19-AIDS and other immunodeficiencies	1.5d Predict the consequences of a compromised immune system [e.g., AIDS (Acquired Immune Deficiency Syndrome)]	*Science Content Standards for California Public Schools, Grades 9-12, Biology/Life Sciences: 10e* Students know *why an individual with a compromised immune system (for example, a person with AIDS) may be unable to fight off and survive infections by microorganisms that are usually benign*