



Prepared: Leslie Dafoe Approved: Bob Chapman

Course Code: Title	BIO132: INTRODUCTORY IMMUNOLOGY								
Program Number: Name	3400: COLLAB BSCN								
Department:	BSCN - NURSING								
Semester/Term:	18W								
Course Description:	This course is designed to provide students with an introduction to the molecules, cells and organs of the immune system. Students will learn how these components of the immune system function together to protect the human body from infectious diseases and cancer. There will also be discussion of the consequences of immune system dysfunction.								
Total Credits:	3								
Hours/Week:	3								
Total Hours:	42								
Prerequisites:	BIOL2036, BIOL2105								
Course Evaluation:	Passing Grade: 50%,								
Evaluation Process and Grading System:	<table border="1"> <thead> <tr> <th>Evaluation Type</th> <th>Evaluation Weight</th> </tr> </thead> <tbody> <tr> <td>Final Exam</td> <td>40%</td> </tr> <tr> <td>Term Test 1</td> <td>30%</td> </tr> <tr> <td>Term Test 2</td> <td>30%</td> </tr> </tbody> </table>	Evaluation Type	Evaluation Weight	Final Exam	40%	Term Test 1	30%	Term Test 2	30%
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Books and Required Resources:	Case Studies in Immunology, A Clinical Companion by Geha, Raif. and Luigi. Notarangelo Publisher: Garland Publishing Edition: 7 ISBN: 9780815345121								
Course Outcomes and Learning Objectives:	<p>Course Outcome 1.</p> <ol style="list-style-type: none"> 1. Students will become familiar with the cells of the immune system. 2. Students will demonstrate knowledge and understanding of the role of the various chemicals used by the immune system. 3. Students will demonstrate knowledge and understanding of the role of innate immunity in 								



COURSE OUTLINE

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- prevention of infection.
- 4. Students will demonstrate knowledge and understanding of the role of adaptive immunity in prevention of disease.
- 5. Students will demonstrate knowledge and understanding of the roles of tolerance, autoimmunity and hypersensitivity in disease and disorder processes.
- 6. students will demonstrate knowledge and understanding of the role of immunity in cancer.
- 7. Students will demonstrate knowledge and understanding of immunodeficiency diseases.

Learning Objectives 1.

- 1. Describe the origin and function of the various types of lymphocytes.
- 2. Describe the production and function of various chemokines.
- 3. Describe the physical, chemical and physiological barriers and mechanisms used by innate immunity. Define and discuss the functions of the First Line of Defense and the Second Line of Defense. Demonstrate the ability to predict the consequences of failure of this aspect of immunity. Use this knowledge to improve client care.
- 4. Discuss the role of B lymphocytes and T lymphocytes. Demonstrate knowledge of the structure and function of antibodies, antigens, and their interactions. Demonstrate knowledge of the structure of T-cells and their role in cell-mediated immune responses. Predict the consequences of failure of this aspect of immunity and use this knowledge to improve client care.
- 5. Describe how the immune system differentiates between self and non-self. Discuss the consequences of errors in self/non-self discrimination and how this produces various autoimmune diseases. Discuss the production of hypersensitivity states and the consequences of such conditions. Use this knowledge to improve client care.
- 6. Describe how the immune system is capable of eradicating early stage cancerous cells, and what happens when this system fails. Use this knowledge to improve client care.
- 7. Describe the generation and outcome of congenital and acquired immunodeficiency diseases. use this knowledge to improve client care.

Date:

Wednesday, August 30, 2017

Please refer to the course outline addendum on the Learning Management System for further information.