



COURSE OUTLINE: BIO132 - INTRO IMMUNOLOGY

Prepared: Leslie Dafoe

Approved: Bob Chapman, Chair, Health

Course Code: Title	BIO132: INTRODUCTORY IMMUNOLOGY				
Program Number: Name					
Department:	BSCN - NURSING				
Semesters/Terms:	22W				
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				
Corequisites:	There are no co-requisites for this course.				
General Education Themes:	Science and Technology				
Course Evaluation:	Passing Grade: 50%, A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.				
Books and Required Resources:	Case Studies in Immunology, A Clinical Companion by Geha, Raif. and Luigi. Notarangelo Publisher: W.W. Norton & Company Edition: 7th ISBN: 9780815345121 Case Studies in Immunology by Magner Publisher: Taylor & Francis Group, LLC Edition: 7th ISBN: 9781317390008				
Course Outcomes and Learning Objectives:	<table><tr><th>Course Outcome 1</th><th>Learning Objectives for Course Outcome 1</th></tr><tr><td>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</td><td>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</td></tr></table>	Course Outcome 1	Learning Objectives for Course Outcome 1	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	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
Course Outcome 1	Learning Objectives for Course Outcome 1				
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	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				

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.



SAULT COLLEGE | 443 NORTHERN AVENUE | SAULT STE. MARIE, ON P6B 4J3, CANADA | 705-759-2554

	understanding of the role of innate immunity in 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.	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.								
Evaluation Process and Grading System:	<table><tr><th>Evaluation Type</th><th>Evaluation Weight</th></tr><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></table>		Evaluation Type	Evaluation Weight	Final Exam	40%	Term Test 1	30%	Term Test 2	30%
Evaluation Type	Evaluation Weight									
Final Exam	40%									
Term Test 1	30%									
Term Test 2	30%									
Date:	July 28, 2021									
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.									

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.



SAULT COLLEGE | 443 NORTHERN AVENUE | SAULT STE. MARIE, ON P6B 4J3, CANADA | 705-759-2554