澳門理工大學
Universidade Politécnica de Macau
Macao Polytechnic University

Macao Polytechnic University

Faculty of Health Sciences and Sports

MASTER OF SCIENCE IN NURSING
LEARNING MODULE OUTLINE

Academic Year	2025-2026	Semester	I
Module Code	NURS6117		
Learning Module	Advanced Pathophysiology		
Pre-requisite(s)	Nil		
Medium of Instruction	Medium of Instruction		
Credits	3	Contact Hours	45
Instructor	Meng Li Rong ─Professor	Email	lrmeng@mpu.edu.mo
Office	7th Floor M 726 Meng Tak Building	Office Phone	85993449

MODULE DESCRIPTION

Pathophysiology emphasizes on discussing the mechanism and law about occurrence, process, prognosis in diseases, which is a science laying particular stress on theory at some extent. Knowledge about normal configuration and function as well as metabolism in human body should be used in pathophysiology by comprehensive analysis to understand disease. So there exists a close relationship between pathophysiology and biology, genetics, anthropotomy, histology, physiology, biochemistry, biophysics, pathology, pharmacology, immunology, microbiology.

MODULE INTENDED LEARNING OUTCOMES (ILOS)

On completion of this learning module, students will be able to:

M1.	Demonstrate understanding of the general mechanism process of common diseases.
M2.	Enhance the capabilities in the clinical thinking and clinical decision-making.

These ILOs aims to enable students to attain the following Programme Intended Learning Outcomes (PILOs):

PILOs	M1	M2
P1. Knowledge and awareness of a range of advanced modules, fields, theories and approaches applicable to nursing discipline	✓	✓
P2. Develop the capabilities in clinical analysis and thinking.	✓	✓
P3. Knowledge of advanced nursing competency working in different clinical specialties	✓	✓

MODULE SCHEDULE, COVERAGE AND STUDY LOAD

Week	Content Coverage	Contact Hours
1	Introduction (2 class hours) 1.1 Concept of disease 1.2 Disease etiology, pathogenesis and outcome 1.3 Prevention of disease	2
2	Basic pathophysiological process. (14 class hours) 2.1 Fever 2.2 Disseminated intravascular coagulation 2.3 Shock 2.4 Hematopoietic system diseases 2.5 Gynecological and obstetric diseases Case analysis	14
3	The pathophysiology about particular systems or organs. (17 class hours) 3.1 Respiratory insufficiency 3.2 Cardiac insufficiency 3.3 Hepatic insufficiency 3.4 Renal insufficiency Case analysis	17
4	The pathophysiology about cancer. (6 class hours) 4.1 Oncogene 4.2 Invasion and metastasis of cancer 4.3 Pathophysiological basis of tumor biotherapy Case analysis	6
5	The pathophysiology about immune diseases. (6 class hours) 5.1 Transplantation immunity 5.2 Tumor immunity 5.3 AIDS 5.4 Autoimmune diseases Case analysis	6

TEACHING AND LEARNING ACTIVITIES

In this learning module, students will work towards attaining the ILOs through the following teaching and learning activities:

Teaching and Learning Activities	M1	M2
T1. Lectures and video	✓	✓
T2. Tutorial discussion	✓	✓
T3. Case studies	✓	✓

ATTENDANCE

Attendance requirements are governed by the Academic Regulations Governing Master's Degree Programmes of the Macao Polytechnic University. Students who do not meet the attendance requirements for the learning module shall be awarded an 'F' grade.

ASSESSMENT

In this learning module, students are required to complete the following assessment activities:

Assessment Activities	Weighting (%)	ILOs to be Assessed
A1. Tutorial discussion and cases study 1	35	✓
A2. Tutorial discussion and cases study 2	30	✓
A3. Tutorial discussion and cases study 3	35	✓

The assessment will be conducted following the University's Assessment Strategy (see www.mpu.edu.mo/teaching_learning/en/assessment_strategy.php). Passing this learning module indicates that students will have attained the ILOs of this learning module and thus acquired its credits.

高級病理生理學 評估表

Assessment 'Advanced Pathophysiology '

評估日期

Date of Observation:

_____

教師 Instructor	Grace Meng	學科單元 Learning Module	Advanced Pathophysiology
課程 Programme	Master of Science in Nursing	班別編號 Class Code	NURS6117

Group members 小組成員：

The topic of report :

Presentation 匯報 100%		Score 得分	Comments 評語
Content comprehensiveness 内容全面	40		
Correct views 觀點正確	10		
Clear expression 表達清晰	20		
Sufficient reference and evidence 文獻、理据充足	20		
Simple and proper PPT style PPT 繁簡得當	5		
Good timing and cooperation 時間、合作、配合良好	5		
Total Score 總分:			

Signature of teacher: Date:

Marks Ranges	Grade	Grade Point	Grade Definitions**
93–100 88 – 92	A A-	4.0 3.7	Excellent
83 – 87	B+	3.3	Very Good
78–82 73 – 77	B B-	3.0 2.7	Good
68–72 63–67 58 – 62	C+ C C-	2.3 2.0 1.7	Satisfactory
53 – 57 50 – 52	D+ D	1.3 1.0	Passed
0 – 49	F	0	Failed

REQUIRED READINGS

Text Books

楊惠玲，潘景軒 等（主編）（2014）高級*病理生理學*（第 2 版）。北京：科學出版社。

Wang Jianzhi, Jin Huiming（Chief Editors）（2005）*Pathophysiology*（First Edition）。Bejing：People's Medical Publishing House

Reference Books

McPhee , S. J., Lingappa, V. R., & Ganong, W. F. (2004). *Pathophysiology of disease.*(3rd ed.). New York: McGraw-Hill.

Xie Keming，Wang Xiaochuan. Pathophysiology Review and Self-Assessment. (2008). Bejing：People's Medical Publishing House

STUDENT FEEDBACK

At the end of every semester, students are invited to provide feedback on the learning module and the teaching arrangement through questionnaires. Your feedback is valuable for instructors to enhance the module and its delivery for future students. The instructor and programme coordinators will consider all feedback and respond with actions formally in the annual programme review.

ACADEMIC INTEGRITY

The Macao Polytechnic University requires students to have full commitment to academic integrity when engaging in research and academic activities. Violations of academic integrity, which include but are not limited to plagiarism, collusion, fabrication or falsification, repeated use of assignments and cheating in examinations, are considered as serious academic offenses and may lead to disciplinary actions. Students should read the relevant regulations and guidelines in the Student Handbook which is distributed upon the admission into the University, a copy of which can also be found at www.mpu.edu.mo/student_handbook/.