



FACULTY OF HEALTH SCIENCES AND SPORTS
BACHELOR OF SCIENCES IN NURSING
LEARNING MODULE OUTLINE

Academic Year	2023/2024	Semester	II
Module Code	CCEN3102		
Learning Module	Critical Care and Emergency Nursing		
Pre-requisite(s)	NMAS2101 NMAS2102		
Medium of Instruction	Chinese		
Credits	3	Contact Hours	45 hrs
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MODULE DESCRIPTION

This 45-hour subject aims to provide a basic understanding of critical care, emergency nursing, and disaster nursing. This course introduces the emergency room/ intensive care unit setting and the emergency medical services systems. It also covers the essential concepts of nursing care related to emergent or critical illness. The resuscitation techniques in emergency nursing and the supporting and monitoring techniques in critical care are detailed described. Students will be equipped with knowledge of the apparatus and machines in the emergency room and critical care unit. The nursing process is used as the framework, while the evidence-based idea is used to develop students' clinical reasoning and judgment. Teaching strategies include lectures, case studies, discussions, audio-visually, class exercises, and nursing skill laboratory sessions. Assessment includes class performance and a closed-book exam.

MODULE INTENDED LEARNING OUTCOMES (ILOS)

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

M1.	Identify life-threatening situations in critical care and emergency nursing.
M2.	Understand aetiology, risk factors, pathophysiology, clinical manifestations, diagnostic investigations, treatment principles, nursing management, and health education related to emergent or critical illness.
M3.	Understand the usage principles of apparatus and machines in the emergency room and critical care unit.
M4.	Master the skills of resuscitation in emergency nursing and the monitoring and supporting techniques in critical care.
M5.	Exercise critical thinking in caring for clients in emergent and critical situations.



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

PILOs	M1	M2	M3	M4	M5
P1. Demonstrate an understanding of the holistic nature of the client's health status involving individual, family, and community aspects.	✓	✓	✓	✓	✓
P2. Demonstrate effective communication skills and the ability to establish and maintain a therapeutic relationship with clients.		✓		✓	✓
P3. Demonstrate a mastery and an application of knowledge and skills for nursing practice, including biological sciences, social sciences and humanities, by making appropriate clinical reasoning and performing safe and therapeutic practice.	✓	✓	✓	✓	✓
P4. Demonstrate the ability to maintain legal and ethical standards of nursing practice.	✓	✓	✓	✓	✓
P5. Demonstrate the ability to carry out relevant research and contribute to the health of the community.		✓			
P6. Work effectively and efficiently alone or in teams.	✓	✓	✓	✓	✓
P7. Demonstrate the ability to identify and evaluate health care issues.	✓	✓		✓	✓
P8. Demonstrate a critical understanding and apply the principles of evidence-based practice to the delivery of nursing care.	✓	✓	✓		✓

MODULE SCHEDULE, COVERAGE AND STUDY LOAD

Week	Content Coverage	Contact Hours
1-3	The introduction of emergency nursing, Critical caring and disaster nursing Poisoning Burn SIRS Sepsis MODS Artificial airway Heimlich maneuver, cardioversion BLS ACLS Pharmacy in ER & ICU Triage and patient assessment in the ER Heat-related emergency, drowning, mountain sickness	19
3,4,7-9	Skill 1: CPR, defibrillation; Skill 2: Scenario of emergent/critical patient (Lok Ka In, Wang Yan); Pain management and sedation in ICU; Patient assessment and monitoring of organ function; Techniques and machines in ICU; Complications in critical patients; Nutrition support in ICU; Head trauma, spinal cord injury; Continuous blood purification, peritoneal dialysis; Multiple and complex trauma	26



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	M3	M4	M5
T1. Lecture	✓	✓	✓	✓	✓
T2. Discussion	✓	✓	✓	✓	✓
T3. Skill learning				✓	

ATTENDANCE

Attendance requirements are governed by the Academic Regulations Governing Bachelor'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 (M1,M2,M3,M4,M5)
A1. Midterm test	40%	M1,M2,M3,M4,M5
A2. Final examination	60%	M1,M2,M3,M4,M5

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.

This learning module is graded on a 100-point scale, with 100 being the highest possible score and 50 being the passing score.

Any student from the Faculty of Health Sciences and Sports (FCSD) scoring less than 35% of the total mark in the final examination will be given an "F" grade for the module even if the overall grade is 50% or higher.



MARKING SCHEME

The requirements of the Midterm test and final examination

The mid-term test/final examination is composed of 15 MCQs, 5-6 short questions and 1-2 case studies. They are designed to check your deep understanding of the theories and your ability to apply these theories to clinical situations.

Assessment Rubrics

	Task	Criteria	Excellent (A, A-)	Very good, Good (B+, B, B-)	Satisfactory (C+, C, C-)	Pass (D+, D)	Fall
2	Final examination	Demonstrate the ability to identify and apply appropriate concepts, methods, and techniques	High	Significant	Moderate	Basic	Not reaching marginal levels

REQUIRED READINGS

Emergency Nurses Association (2019). Sheehy's Emergency Nursing: Principles and Practice (7th). Mosby.

Suzanne Burns (2023). AACN Essentials of Critical Care Nursing (5th). McGraw-Hill Education / Medical.

張波(2016). 危急重症護理學. 北京: 人民衛生出版社.

REFERENCES

Vicki Sweet (2018). Emergency nursing: core curriculum (7th). Elsevier.

唐景俠(2017). 急重症護理學. 臺北: 華杏.

蔡秀鶯, 吳淑玲, 吳宏蘭, 李瑜弘, 黃嫦芳等(2019). 重症護理學. 臺北: 永大.

許虹(2016). 急救護理學 (第二版). 北京: 人民衛生出版社.

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.



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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/.



NO.	Day	Time	Content	Teacher
1	20240108	0900-1100	Introduction of emergency nursing, critical care, and disaster nursing	Wang Yan
2	20240108	1100-1300	Poisoning	Wang Yan
3	20240108	1430-1630	Burn care	Wang Yan
4	20240108	1630-1830	SIRS, Sepsis, MODS	Wang Yan
5	20240109	1100-1300	Artificial airway, Heimlich maneuver, cardioversion	Phoenix
6	20240109	1430-1730	BLS, ACLS, Pharmacy in ER & ICU	Phoenix
7	20240115	1100-1300	Triage and patient assessment in the ER	Kerry
8	20240119	1100-1300	Heat-related emergency, drowning, mountain sickness	Kerry
9	20240122	1100-1300	Skill 1: CPR, defibrillation	Phoenix
10	20240125	0900-1100	Skill 2: Scenario of emergent/critical patient (Lok Ka In, Wang Yan)	Kerry
11	20240125	1100-1300	Pain management and sedation in ICU	Wang Yan
12	20240126	1100-1300	Patient assessment and monitoring of organ function(1)	Lok Ka In
13	20240129	1100-1300	Mid-term	Kerry
14	20240220	1100-1300	Patient assessment and monitoring of organ function(2)	Lok Ka In
15	20240222	0900-1100	Techniques and machines in ICU (1)	Wang Yan
16	20240222	1100-1300	Techniques and machines in ICU (2)	Wang Yan
17	20240222	1430-1630	Complications in critical patients	Wang Yan
18	20240227	1100-1300	Nutrition support in ICU	Lok Ka In
19	20240301	1100-1300	Head trauma, spinal cord injury	Kerry
20	20240304	1100-1300	Continuous blood purification, peritoneal dialysis	Phoenix
21	20240306	1100-1300	Multiple and complex trauma	Kerry
22	20240429	1430-1630	EXAM	Wang Yan