



FACULTY OF HEALTH SCIENCES AND SPORTS
BACHELOR OF SCIENCE IN BIOMEDICAL TECHNOLOGY
(MEDICAL LABORATORY TECHNOLOGY)
LEARNING MODULE OUTLINE

Academic Year	2025/2026	Semester	1
Module Code	BSPE2102		
Learning Module	Public Health and Preventive Medicine		
Pre-requisite(s)	Nil		
Medium of Instruction	Chinese / English		
Credits	2	Contact Hours	30 hrs
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MODULE DESCRIPTION

This 30-hour compulsory course aims to facilitate students to obtain a broadened understanding of public health/preventive medicine theory and practice, as well as their relatedness to laboratorial/ pharmaceutical professionals. The learning is characterized by reviewing most impacting public health issues in Macao during the past decade, and by eliciting active participation and reflection of students.

MODULE INTENDED LEARNING OUTCOMES (ILOS)

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

M1.	Learn the theoretical fundamentals of public health/preventive medicine.
M2.	Recognize the history and current situation of public health in Macao.
M3.	Master the roles of Medical personnel in public health management.

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

PILOs	M1	M2	M3
P1. To demonstrate understanding of a range of subjects, fields, principles and approaches relevant to medical laboratory technology	✓		
P2. To demonstrate understanding of theories, analytical approaches and practices that underpin medical laboratory operations and management	✓		
P3. To demonstrate understanding of major trends and issues related to medical laboratory technology		✓	



P4. To apply professional knowledge and skills to analyse, interpret and solve problems, challenges and risks in medical laboratory practice			
P5. To critically appraise and interpret scientific and clinical literature and apply evidence-based practice	✓		
P6. To acquire and apply research skills in medical laboratory technology			
P7. To demonstrate effective communication and teamwork skills	✓		
P8. To maintain professional and ethical standards in medical laboratory practice and research	✓		

MODULE SCHEDULE, COVERAGE AND STUDY LOAD

Week	Content Coverage (Class A)	Contact Hours
1-4	Theoretical teaching	16-18
4-5	Presentation	2-4
8-9	Macao CDC's selected topics	10
6	Assignment	-

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
T1. Lectures	✓		
T2. Discuss the local and non-local current public health issues		✓	
T3. Topic report			✓

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
A1. Quiz	30	M1
A2. Oral presentation	30	M2
A3. Assignment	20	M2
A4. Full attendance	20	M3

The resit exam will not be arranged for this module.

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.

MARKING SCHEME

Presentation requirements

Each student needs to submit the PowerPoint before the presentation.

Oral Presentation

Areas of Assessment	Marking criteria	Weight
1. Presentation content	- Relevant to the chosen topic, with appropriate width and depth	20%
	- Acknowledgement of sources	10%
2. Presentation Skills	- The presentation was well-organized	20%
	- Slides were easy to read and designed with delicate format	20%
	- Appropriate use of media (pictures, charts, diagrams, videos, etc.)	20%
	- Time control	10%
Total		100

Assignment requirements

Each student needs to design an educational pamphlet on any topics about public health issue. A pamphlet is an unbound booklet (that is, without a hard cover or binding). It may consist of a single sheet of paper that is printed on both sides and folded in thirds (called a leaflet). The following instructions may help to design a pamphlet.

1. Determine the focus and content of the pamphlet project. In most cases, the purpose of pamphlet material will be to educate, to entertain, to enlighten and/or to persuade the target reader to take a particular course of action.
2. Identify target market. The age, gender, occupation, social status and education of the readers will determine the grade level language used, the color scheme, the number of photographs and graphics to supplement the text, and the distribution mechanism for letting readers know that pamphlet is available.
3. A format of the pamphlet is A4 size. The recommended size is a folded version (21*29.7 cm).



4. Strive for as much white space as possible on each page of text. If the material has not been broken into easy, bite-sized pieces and looks way too cluttered on the page, it's not going to hold the reader's attention. Choose a font that is easy to read such as Courier, Times New Roman, Bookman or Palatino.
5. Incorporate photographs, graphics, and maps to help break up the text. If the pamphlet contains multiple sections, include a table of contents so that material will be easy to find. Always number your pages, too. Allow a 1-inch of margin space at the top, bottom, left and right sides of each page.
6. Use a photograph or a striking pen and ink graphic for the cover design.
7. Personal information (year, class, name, and student number) must be included.
8. Proofread work thoroughly before the submission (both the soft and hard copies).

Assignment (Design a public health pamphlet)

Areas of Assessment	Marking criteria	Weight
1. Theoretical input		
1.1 Contents	- Relevant to the chosen topic, with appropriate width and depth	20%
1.2 Structure	- Well organized, clear	20%
1.3 Source of information	- Authoritative, up-to-date, with sound evidence, well acknowledged - At least 3 pieces of literature, one from professional journal - Most updated information	20%
2. Presentation style	- Creativity	10%
	- Attractiveness	10%
	- Comprehensibility	10%
	- Appropriate organization	10%
Total		100

REQUIRED READINGS

There is no specific required textbook for this course.

REFERENCES

- 王榮德、江東亮、陳為堅、詹長權（2015）。公共衛生學：上中下冊，修訂五版。臺灣大學。
- David L. Katz & Joann G. Elmore & Dorothea Wild & Sean C Lucan (2020). *Jekel's Epidemiology, Biostatistics, Preventive Medicine, and Public Health*, 5th edition. Elsevier.
- Debra Haire-Joshu & Timothy D. McBride (2013). *Transdisciplinary Public Health: Research, Education, and Practice*. John Wiley & Sons.
- Marcia S. & Jeanette L. (2020). *Public Health Nursing*, 10th edition. Elsevier.



Timetable:

	Date & Time			Topic	Teacher
01	2025-08-28	Thu	1430-1630	Global Burden of Diseases	TONG
02	2025-09-01	Mon	1430-1630	Introduction, Essential Public Health Functions	CHAN
03	2025-09-04	Thu	1430-1630	Covid-19 Vaccine	TONG
04	2025-09-08	Mon	1430-1630	Community Ethics	CHAN
05	2025-09-11	Thu	1430-1630	Gambling Disorder	TONG
06	2025-09-15	Mon	1430-1630	Environmental Health	CHAN
07	2025-09-18	Thu	1430-1630	Substance Abuse, HIV/AIDS	TONG
08	2025-09-22	Mon	1430-1630	Occupational Health and/or oral presentation	CHAN
09	2025-09-25	Thu	1430-1630	Food Safety	TONG
10	2025-09-29	Mon	1430-1630	Oral presentation	CHAN
11	2025-10-18	Sat	0900-1100	CDC Topic	CDC
12	2025-10-18	Sat	1100-1300	CDC Topic	CDC
13	2025-10-25	Sat	1000-1300	CDC Topic	CDC
14	2025-10-25	Sat	1430-1730	CDC Topic	CDC

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/.