



FACULTY OF APPLIED SCIENCES
BACHELOR OF SCIENCE IN COMPUTING
LEARNING MODULE OUTLINE

Academic Year	2024/2025	Semester	2
Module Code	MSEL110		
Learning Module	Accounting		
Pre-requisite(s)	Nil		
Medium of Instruction	English		
Credits	3	Contact Hours	45 hrs
Instructor	Jovy Wong	Email	T1582@mpu.edu.mo
Office	B201	Office Phone	85993281

MODULE DESCRIPTION

This introductory module in accounting provides students with an understanding of: the principles of accrual accounting; financial statement analysis; double-entry systems; the accounting cycle; and basic managerial accounting concepts.

MODULE INTENDED LEARNING OUTCOMES (ILOS)

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

M1.	Understand basic accounting concepts such as the matching principle, the accounting equation, and the accounting cycle. (SM2p)
M2.	Record journal entries in an accounting system. (SM2p)
M3.	Apply and compare various inventory cost methods. (SM2p)
M4.	Report stockholders' equity transactions in the financial statements. (SM2p)
M5.	Understand and analyze financial statements. (ET1p, EP6p)

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

PILOs	M1	M2	M3	M4	M5
P1. Select and apply proven methods, tools and techniques to the effective and efficient implementation of information systems;					
P2. Evaluate computer systems in a local area network, and understand the additional requirements for connection to other networks through wide area networks;					
P3. Be competent in system development in the Internet and the web platform;					



P4.	Work independently to design and implement a relational database, with an emphasis on how to organise, maintain and retrieve information from a DBMS;					
P5.	Acquire essential knowledge in specific fields of computing disciplines including multimedia, security and artificial intelligence;					
P6.	Acquire the perceptive skills needed to understand information presented in the form of UML diagram, flow chart or other industry standard formats;					
P7.	Understand the need for and use of the necessary mathematical techniques;	✓	✓	✓	✓	✓
P8.	Work independently to develop an understanding of, and the knowledge and skills associated with the general support of computer systems and networks;					
P9.	Work as an effective member of a team in the analysis, design and development of software systems;					
P10.	Use project planning and management techniques in systems development;					
P11.	Understand the fundamental and operational issues of computer systems in business environments;					
P12.	Equip with adequate written, oral communication and interpersonal skills;	✓	✓	✓	✓	✓
P13.	Build the capacity and desire for lifelong learning and to learn advanced and emerging technologies on one's own;	✓	✓	✓	✓	✓
P14.	(For Enterprise Information Systems specialisation) Gain an in-depth understanding of the information technology related to enterprise information systems, with an emphasis on development of such systems to support business processes;					
P15.	(For Gaming Technology specialisation) Acquire the general and advanced knowledge of current technologies and operating environment in the gaming industry;					
P16.	(For Computer Education specialization) Acquire the general and practical knowledge of computer education and its practicing environment in secondary education.					

MODULE SCHEDULE, COVERAGE AND STUDY LOAD

Week	Content Coverage	Contact Hours
1	1. What is Accounting?	3
	1.1 The conceptual framework of Accounting	
	1.2 Financial vs. Managerial Accounting	
2-3	2. Introduction to Financial Statement	6
	2.1 The Accounting Equation	
	2.2 The Financial statements: Balance Sheet, Income Statement and Cash Flow Statement	



4	3. Recording Business Transactions	3
	3.1 Double-Entry Accounting	
	3.2 Trial Balances and T Accounts	
5-6	4. Accrual Accounting	6
	4.1 Accrual vs. Cash Basis	
	4.2 The Adjustment Process	
7	5. Cash and Receivables	3
	5.1 Recognition of Revenue	
	5.2 Internal control of Cash	
	5.3 Budgets and Cash Flow	
8-10	6. Inventory, PPE, Intangibles and Investments	9
	6.1 Inventory Costing Methods	
	6.2 Types of Non-Current Assets	
	6.3 Depreciation Methods	
	6.4 The Cash Flow impact of long-lived asset transactions	
11-12	7. Liabilities	6
	7.1 Time Value of Money	
	7.2 Current, Long-Term and Contingent Liabilities	
	7.3 Report liabilities on the Balance Sheet and/or in the notes to the financial statements	
	7.4 Financing with debt vs. equity	
13	8. Shareholders' Equity	3
	8.1 Corporate Organization and Share Issuance	
	8.2 Treasury Shares	
	8.3 Retained Earnings, Dividends, and Stock Splits	
14-15	9. Financial Statement Analysis	6
	9.1 Horizontal Analysis and Vertical Analysis	
	9.2 Financial Ratios	
	9.3 Red flags in financial statement analysis	



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. Lectures, videos, tutorials	✓	✓	✓	✓	✓
T2. In-class exercises, discussions	✓	✓	✓	✓	✓

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 (%)	AHEP3 LOs	ILOs to be Assessed
A1. Assignments / Classwork	25%	SM2p, ET1p, EP6p	M1,M2,M3,M4, M5
A2. Test	25%	SM2p, ET1p, EP6p	M1,M2,M3,M4, M5
A3. Examination	50%	SM2p, ET1p, EP6p	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.

Students with an overall score of less than 35 in the coursework must take the re-sit examination even if the overall score for the module is 50 or above.

Students with a score of less than 35 in the final examination must take the re-sit examination even if the overall score for the module is 50 or above.

Students with an overall final grade of less than 35 are NOT allowed to take the re-sit examination.

REQUIRED READINGS

Textbook(s)

Harrison Jr. W., Horngren C., & Thomas C. (2021). Financial Accounting (13th Global edition). Prentice-Hall.

REFERENCES

Noreen, Brewer, & Garrison. (2014). Managerial Accounting for Managers (3rd edition). McGraw-Hill.



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

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/.