

SUMMARY OF COURSES IN THE BANKING SPECIALIZATION TRAINING PROGRAM

(Version 2021)

No.	Course Name	Course Description	Number of Credits	Program Learning Outcomes (PLO)							
				PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
Compulsory General Education Courses											
1	Philosophy of Marxism-Leninism	Philosophy of Marxism-Leninism is a fundamental course that provides general knowledge to equip students with a scientific materialistic worldview and dialectical materialist methodology. The course helps students accurately identify the role and position of Marxist-Leninist philosophy in social life. It contributes to enhancing political competence, gradually forming cultural and ethical values, strengthening ideals, and fostering a belief in the path and mission of nation-building and development, thereby raising social responsibility awareness suitable for future employment and life after graduation.	3	X	X	X					
2	Marxist-Leninist Political Economics	Marxist-Leninist Political Economics is an economic science course, a component of Marxist-Leninist science. It investigates social	2	X	X	X					

		relations in human production, exchange, and consumption of material wealth through the developmental stages of human societal history. It clarifies the essence of economic processes and phenomena and discovers the laws governing socio-economic development.									
3	Scientific Socialism	Scientific Socialism is one of the three components of Marxism-Leninism, studying the essential laws of the emergence of the communist socio-economic formation and the political and social issues with regularities in the socialist revolution process worldwide and in present-day Vietnam.	2	X	X	X					
4	History of the Communist Party of Vietnam	The History of the Communist Party of Vietnam is a fundamental course covering four chapters, providing basic knowledge about the Party's establishment, its revolutionary leadership in various stages, successes, limitations, and lessons learned. The aim is to help students enhance their understanding and trust in the Party, apply acquired knowledge to practical work, and contribute to the construction and defence of the Socialist Republic of Vietnam.	2	X	X	X					
5	Ho Chi Minh's Ideology	Ho Chi Minh's Thought is a fundamental course with six chapters, offering core knowledge about the formation and development of Ho Chi Minh's ideology. It covers national independence, socialism, the Communist Party, and the Vietnamese state. The course helps students	2	X	X	X					

		comprehend the role and value of Ho Chi Minh's thoughts in reality.									
6	Advanced Mathematics 1	Advanced Mathematics 1 is a foundational course covering algebraic topics applied in economic analysis. Content includes matrices, linear equations, vector spaces, and matrix diagonalization.	2	X	X				X		
7	Advanced Mathematics 2	Advanced Mathematics 2 is a foundational course covering analytical mathematics applied to economic analysis. Topics include limits, continuity, derivatives, integrals of single-variable functions, partial derivatives, total differentials, extremes of multi-variable functions, and first and second-order differential equations.	2	X	X				X		
8	Theory of Probability and Statistics	The theory of Probability and Statistics belongs to the general education knowledge block. This course provides students with basic foundations and tools of probability and statistics to approach knowledge in the field and specialization. It aids students in applying the knowledge they learned in economics, finance, banking, management, and information systems.	3	X	X				X		
9	General Law	General Law is a compulsory course in the general education knowledge block for non-law majors. It studies fundamental issues related to the state, law, and the legal system in Vietnam. The main content includes theoretical and practical aspects of the state and law, basic legal	2	X	X			X			

		concepts, and an introduction to the legal system and some legal branches. The course aims to make students understand fundamental issues of the state and law, as well as the operation of the legal system, fostering a sense of responsibility and legal compliance in work and life.									
	Elective courses in the general education core (choose one course)										
10a	Psychology	Psychology is a social science that studies issues related to the nature of human psychology, classifies psychological phenomena, and analyzes the formation and development of psychological consciousness. It examines components in human cognitive activities, studies factors in emotional life, will, and elements that constitute personality, as well as factors influencing the formation and development of human personality.	2	X		X					
10b	Applied Logic in Business	This course aims to equip students with knowledge of mathematical foundations in programming and cryptography, including logic, relations, recursion, graphs, trees, public key cryptography RSA, QR codes, etc. Upon completion of the course, students will have a solid understanding of the principles and skills of inference for use in programming languages, algorithms, encryption, and application in real-life situations.	2	X	X					X	
	Compulsory courses in the major foundational knowledge										

1	Microeconomics	Microeconomics is a fundamental course within the foundational knowledge block, aiming to (i) Provide a foundational understanding of economics in general and microeconomics in particular; (ii) Develop essential skills such as reading, self-learning, and teamwork. To achieve these objectives, the course covers basic concepts, including ten principles of economics, supply and demand theories, market structures, and consumer and firm behaviour.	3	X	X		X				
2	Macroeconomics	Macroeconomics is a compulsory course in the foundational knowledge block, focusing on equipping students with (i) Understanding basic macroeconomic concepts, measurement methods for macroeconomic indicators, and their relationships (ii) Knowledge about government policies in macroeconomic management. The course comprises eight chapters covering topics such as an overview of macroeconomics, macroeconomic data, production and growth, the monetary system, aggregate demand and supply, monetary and fiscal policies, inflation and unemployment, and macroeconomics of an open economy.	3	X	X		X				
3	Introduction to Banking Industry	Introduction to the banking industry is a compulsory course in the core knowledge block of the Finance and Banking sector, specializing in Banking. The course provides fundamental insights into the banking system, organizational	2				X	X			X

		activities, various positions within a bank, and essential soft skills for students. It assists students in career orientation and academic planning to meet the requirements of the finance and banking industry.									
4	Principles of Accounting	Principles of Accounting is a foundational knowledge course that provides basic knowledge about accounting concepts, the accounting object, methods, accounting books, accounting forms, and organizational accounting work to practice accounting procedures in accordance with current legal regulations. Moreover, the course imparts basic accounting knowledge to interpret specialized issues in the economic field.	3	X				X	X		
5	Business Law	Business Law, consisting of 5 chapters, provides basic knowledge about business, freedom of business, subjects of business, contract law in business, dispute resolution in business, and business bankruptcy. Additionally, the course helps students identify legal regulations for researching and resolving legal issues arising in practice.	3	X	X			X			
6	Principles of Marketing	The course is designed based on fundamental principles of marketing. It falls under the category of basic knowledge in the field of economics. It provides students with basic knowledge and the ability to recognize, understand, and apply basic marketing concepts to business activities. Students are introduced to fundamental concepts	3	X		X	X				

		related to market research, understanding customer behaviour, segmenting the market, determining target markets, and deploying marketing tools to serve the needs of target customers, thus gaining a competitive advantage for businesses.									
7	Applied Informatics	This course is highly essential, equipping students in the Economics - Management - Administration sector of the University of Banking in Ho Chi Minh City to effectively use computers for their studies, research, and work. After completing the course, students will have a good grasp of basic knowledge and skills, being able to use software such as MS Word, MS Excel, SPSS, and other software for high-quality document editing, complex spreadsheet creation, solving financial analysis problems, business analysis, data analysis, and project management.	3			X	X			X	
8	Econometrics	Econometrics is a compulsory course in the general education block. The course provides students with basic knowledge of OLS estimation methods, statistical inference and forecasting, hypothesis testing, and model selection skills.	3	X	X				X		
9	Fundamentals of Management	The course provides students with fundamental knowledge of management, including the history of development, concepts, roles, and functions of management, and basic skills of managers. Through the study of management situations, students gain a deeper understanding of	3	X		X	X				

		theoretical content and gradually apply the knowledge acquired to solve problems in management activities. Additionally, the course introduces current trends in the development of new management theories.									
10	Theory of Finance and Currency	Theory of Finance and Currency is a course in the core knowledge block, including nine chapters, aiming to help students understand and apply fundamental theories of money, finance, and financial systems; understand the structure, functions, and roles of intermediary financial institutions, with a focus on commercial banks; understand and apply fundamental theories of monetary circulation, such as central banks, money supply and demand, inflation, and monetary policy. The course provides essential knowledge as a foundation for studying specialized technical issues in the economic, financial, and banking sectors.	3			X			X		X
11	Corporate Finance	Corporate finance comprises five chapters, providing fundamental knowledge about corporate financial principles. The course covers an overview of corporate finance, the time value of money, profit and risk, capital cost, and theories of capital structure. Additionally, students are guided on using tools to process data in the field of corporate finance, such as calculators and Excel software.	3					X	X		X

12	Financial Accounting	The Financial Accounting course is part of the foundational knowledge block. It provides knowledge about the accounting of manufacturing enterprises, enabling students to actively engage in economic activities in accordance with current legal regulations. Specific accounting tasks for manufacturing enterprises covered in the course include cash accounting, accounting for payments; accounting for input factors in the production process (accounting for raw materials and tools, accounting for fixed assets, accounting for amounts payable to labourers); accounting for the aggregation of production costs and determining product costs; accounting for revenue, expenses, and determining business results; accounting for owner's equity. The course provides methods to solve issues related to the accounting of manufacturing enterprises to serve work in the economic field.	3				X	X	X		
13	English for Specific Purposes 1	This course is designed to provide vocabulary, terminology, and concepts used in the fields of economics, business, management, and commerce. It focuses on English grammar structures. The course creates conditions for students to apply English language skills in an international integration environment confidently.	2			X	X				X
14	English for Banking and Finance	This course is designed to provide vocabulary, terminology, and concepts used in the fields of finance and banking. It covers English grammar	3			X	X				X

		structures. The course creates conditions for students to apply English language skills in an international integration environment confidently.									
15	Scientific Research Method	<p>Scientific Research Method is a compulsory course in the foundational knowledge block of the field. It is designed to provide students with basic knowledge of systematic research activities and a scientific approach.</p> <p>Specifically, the course covers fundamental issues such as the role of research, methods for identifying research problems, conducting literature reviews and relevant previous studies, formulating research questions, ethics in research, citation and presentation of references, data collection and sample selection; presentation of data and selection of research design with various types of data; writing research proposals and reports.</p>	3	X	X		X				
Elective courses in the major foundational knowledge (choose 03 courses from the same combination)											
16a	International Economics	International Economics is a course in the foundational knowledge block of the field. The course aims to equip students with an understanding of international economic concepts, theories, and models. It covers knowledge about policies and tools used by governments to manage international economic activities. The course explores the economic relationships between countries through the exchange of goods services,	3	X		X			X		

		and the movement of economic resources (labor, capital). It provides a systematic overview of international economic theories, tools of international trade policy, and a fundamental analysis of the international balance of payments and exchange rates.									
17a	Financial Markets and Institutions	This course is part of the foundational knowledge system of various majors, including Finance and Banking, Auditing, International Economics, Management Information Systems, and E-commerce. It is a compulsory course before students move on to specialized and major subjects. The course provides general knowledge about the financial system, financial markets, and financial institutions. Key topics include the characteristics of financial instruments, the organization and functioning of financial markets, and financial institutions such as commercial banks, investment banks, insurance companies, investment funds, and other financial organizations within the financial system.	3						X	X	X
18a	International Finance	International Finance provides students with foundational knowledge and basic research skills in the field of international finance. It takes an economic analysis approach and applies international finance to today's business activities. The course structure consists of three main parts. Part I covers the fundamental theoretical foundations of international finance, emphasizing the close links and continuous interactions	3						X	X	X

		between markets and the economies of countries through theories of international price, interest rate, and exchange rate equalization. Part II examines the framework and structure of the global monetary and financial environment, analyzing the international monetary system, global financial institutions, and the system of global financial markets. It also addresses international capital flows and government controls on international capital flows. Part III focuses on the practical aspects of international finance in global business, clarifying the financial activities of international enterprises and risk management related to exchange rate fluctuations. In addition, students practice discussing case studies related to international financial relations and exchange rate risks in international trade and investment.										
16b	Social Network Data Analysis	Social Network Data Analysis is an elective course in the specialized knowledge block. The course introduces concepts and theories related to website and social network data analysis, covering methods, techniques, and tools. It enables students to apply tools to explore information about websites and social networks, create customer profiles, identify trends, target audiences, analyze opinions, and develop recommendation systems.	3	X						X	X	

17b	Applied Algorithms in Business	Algorithms Applied in Business is a compulsory course in the foundational knowledge block of the field. The course provides students with knowledge about commonly used algorithms in business on computers, helping them use basic data structures. It also guides students to understand, analyze, and evaluate algorithms working with these data structures to solve real-world problems.	3					X			X	X
18b	Python Data Analysis	Python Data Analysis is an elective course in the foundational knowledge block of the field. The course teaches students how to use the Python language to manipulate data for analysis and search for helpful information in data. It supports business purposes, financial investment, and forecasting for practical activities in enterprises or organizations.	3					X			X	X
	Compulsory courses in the major field of study											
1	Banking Operations	Banking Operations is a compulsory course in the Finance and Banking field. The course aims to clarify the differences between banking operations and other financial institutions. It details specific situational handling skills to help students understand the business characteristics of the banking industry and the tasks associated with different professional positions within a bank. This course serves as foundational knowledge for subsequent courses, such as Financial Service	3						X	X		X

		Marketing and Commercial Banking Management. The main content provides fundamental knowledge about the business operations of the banking system in the modern economy, enabling students to grasp the foundational knowledge of banking business. It also creates conditions for in-depth research into each type of banking activity in specialized banking courses.										
2	Corporate Finance Analysis	Corporate Finance Analysis is a compulsory course in the Industry/Major group, consisting of 5 content chapters. The course explains and guides the use of analysis models to draw accurate conclusions about business results, capital and funding utilization, financial structure, working capital management, cash flows, profitability of capital and assets, and liquidity. The results of the analysis provide helpful information about the "health" of a business, forming the basis for decision-making by creditors, managers, and other stakeholders. Additionally, the course instructs students on how to collect and process financial information for companies, utilizing Excel for data processing and analysis tables. Through real-life business scenarios, students are guided to practice analysis and report writing, thereby equipping them with necessary and practical skills for relevant professional practices.	3							X	X	X

3	Financial Services Marketing	Financial Services Marketing is a course within the specialized knowledge block. The course provides students with knowledge about marketing activities specific to organizations that provide financial services, such as banks, insurance companies, financial companies, and securities companies. Through this, students can understand and apply the knowledge to plan, build marketing strategies, and implement specific marketing activities, such as developing financial service products, pricing, advertising and communication for organizations providing financial services.	3						X	X	X
4	Investment Project Appraisal	Investment Project Appraisal is a course in the banking field. The course aims to provide students with specialized knowledge and skills in appraising an investment project to evaluate the financial and non-financial feasibility factors. This evaluation helps in making decisions on whether to invest or provide credit. The course is closely related and serves as a foundational role for the Project Finance course that students will study in subsequent parts, replacing the graduation thesis.	3					X	X		X
5	Credit Rating	Credit Rating is a course within the knowledge block of the Finance and Banking industry. The course provides students with basic knowledge of credit rating, the business model of independent rating agencies, and the operation of the credit	3					X	X	X	

		rating market. It enables students to identify and control risks in the process of customer evaluation, financial investment, bank credit, risk management, and other banking activities. The main content of the course includes: (i) an Overview of credit rating, (ii) Credit risk model, (iii) Credit rating services of independent rating agencies, and (iv) Internal customer credit rating in banks.										
6	Applied Econometrics	Applied Econometrics comprises four chapters, providing students with knowledge of methods and models of quantitative economics applied in research areas such as economics, finance, and banking. This includes univariate time series models, conditional variance models, and methods for panel data. The course is approached from an applied perspective, closely linked to the use of specialized quantitative economic software, including EViews, Stata, R. Lectures are structured to introduce specific models and the necessary techniques for estimation and forecasting. Practical exercises on real datasets are integrated into the lectures to ensure students can understand and implement the concepts.	3						X	X	X	
Elective courses in the major field of study (choose 2 courses in the same combination)												
7a	Taxation	The Taxation course consists of 7 chapters, introducing students to understanding and applying basic knowledge about taxes from theoretical perspectives (economic, political, and	3							X	X	X

		legal). It guides students through tax calculation methods and discusses issues related to taxes for individuals, businesses, and society. This enables students to calculate taxes in various situations, debate different tax scenarios in practical contexts, and share their understanding of taxes with the community. Through this course, students can explain and evaluate the impacts of taxes on economic relationships as well as on social life.									
8a	Insurance	The Insurance course comprises six chapters, aiming to provide the most fundamental knowledge about insurance. Students will become proficient in handling situations related to insurance business operations, such as insurance underwriting, premium calculation, and resolving insurance benefits for clients in various scenarios. Students will also understand and present necessary content related to insurance contracts, distinguishing the characteristics and principles of life insurance contracts and non-life insurance contracts.	3						X	X	X
7b	Core Banking and Electronic Banking	The Core Banking and Electronic Banking course provide basic knowledge about core banking systems and electronic banking, including key concepts, application scope, system models, and development strategies of core banking and electronic banking systems. The course introduces students to all basic modules in a core banking system (e.g., customer, account, deposit, loan, payment, international payment, etc.). Moreover,	3						X	X	X

		it familiarizes students with standard core banking and electronic banking solutions in both domestic and global contexts. Additionally, the course helps students understand integrated systems with core banking systems (e.g., M-banking, ATM, CITAD, SWIFT). Specifically, it covers projects related to core banking implementation and integrated systems with core banking.									
8b	Artificial Intelligence in Quantitative Trading	Artificial Intelligence in Quantitative Trading is a course within the industry/major knowledge block. The course helps students apply algorithms, quantitative models, artificial intelligence, and machine learning techniques in the fields of finance and banking. It covers topics such as investment strategies, financial products, portfolio construction, data analysis, and systems validation—all within the context of specific quantitative transactions. This course is a combination of mathematics, programming skills, artificial intelligence, and machine learning to develop algorithms and apply quantitative models in investment, finance, and banking business operations.	3						X	X	X
	Compulsory courses in the specialized field of study										
1	International Payments	The International Payments course is a mandatory subject, falling within the specialized knowledge block in the Finance and Banking program, specializing in Banking, and is also part of the Financial Technology specialization. The course	3						X	X	X

		delves into topics such as an overview of international payment activities and correspondent banking transactions. It covers international trade-related knowledge serving international payment operations, including Incoterms, international trade contracts, financial documents, and commercial documents. The course also provides in-depth knowledge of international payment methods, including wire transfers (prepaid, postpaid, CAD), collection, and credit documents.									
2	Bank Credit	Bank Credit is a compulsory course within the specialized knowledge block of Banking and in the Financial Technology program. The course content inherits knowledge from Financial Statement Analysis and Banking Business Operations. It equips students with the knowledge and skills to process information, evaluate information, and make credit decisions or respond to risks that arise after making credit decisions in the most reasonable way possible (rather than the most accurate or unique).	3					X	X	X	X
3	Bank Accounting	Bank Accounting provides fundamental knowledge and a foundation for major accounting transactions at banks. It helps students perform related tasks such as general banking accounting, bank transaction officers, bank auditing, internal bank control, and internal bank auditing.	3						X	X	X

4	Foreign Exchange Trade	Foreign Exchange Trade is a specialized knowledge course that provides in-depth knowledge, including fundamental issues about the foreign exchange market, basic transactions in the foreign exchange market, international practices, and relevant domestic legal documents. It covers in-depth practical knowledge of foreign exchange business, applying foreign exchange transactions in business, and adapting risk insurance to currency rate fluctuations in the banking sector.	3					X	X	X	X
5	Commercial Bank Management	Commercial Bank Management is placed within the general principles of business management science. Foundational knowledge about management is reiterated and developed in-depth for managing banking business operations. The course is designed to approach the specific nature of banking operations in two directions: (1) Financial Institution Management and (2) Financial Risk Management. It equips students with knowledge and skills to process information, evaluate information, and take measures or respond to management situations in the most reasonable way possible (rather than the most accurate or unique)	3					X	X		X
6	Internship on Banking and Finance	In this part, students will undergo an internship, survey, and research practical activities related to the financial and banking sector at enterprises, commercial banks, non-banking financial	3				X	X	X	X	X

		institutions, or state financial management agencies. The lecturer will guide students in observing, studying, and researching real-life transactions related to the financial and banking sector. This process allows students to apply the knowledge they have learned to specific business activities and management, contributing insights to the internship organization. This helps students gain additional knowledge and experience and hone professional skills and ethics to excel in their future careers.									
	Optional courses in the specialized field of study (choose between completing the graduation thesis or taking alternative courses. Students undertaking the graduation thesis must meet the conditions according to the training regulations of the University)										
7a	Dissertations on Banking and Finance	Dissertations on Banking and Finance is carried out under the guidance of instructors, where students choose research topics within the field of finance and banking. Through the research process, students apply knowledge, information, and methods to address research objectives scientifically. This helps students enhance research skills and self-learning abilities and contributes to improving and solving practical issues.	9		X		X	X	X	X	X
7b	Banking Risk Management	Banking Risk Management is a course that replaces the graduation thesis, falling within the specialized knowledge of Finance and Banking, a Banking major, and is also part of the Financial Technology program. The course provides in-depth knowledge of specific risks in banking	3		X				X		X

		operations and risk management perspectives according to international standards (Basel Committee). In addition, students will be equipped with tools and skills to identify, measure, monitor, and control various risks arising in modern banking business operations. The course content includes critical sections: an overview of risk management in the banking business, credit risk management, market risk management, liquidity risk management, and operational risk management.									
	Project Financing	Project Financing is a subject within the specialized knowledge block and is one of the three subjects that replace the graduation thesis for students majoring in finance and banking. The course is directly related to the Investment Project Appraisal in the industry foundation of the finance and banking major. After students have understood the feasibility assessment and cash flow analysis of the project in the previous subject, Project Financing guides students in-depth about analyzing financing structures and designing contracts to minimize risks for large-scale projects.	3						X	X	X
	Asset Valuation	This course aims to provide students with in-depth knowledge of asset valuation for various purposes. The course also equips students with professional skills in the financial field and a serious attitude toward work. The chapters of the course include:	3				X	X	X		

		<p>Chapter 1: An overview of asset valuation to establish the foundation for further learning, covering definitions, related definitions, the subject and purposes of valuation, valuation principles, approaches, and the valuation process.</p> <p>Chapter 2: Introduction to the valuation of real estate, including factors influencing real estate value and approaches to real estate valuation.</p> <p>Chapter 3: Introduction to the valuation of machinery and equipment, including factors influencing the value of machinery and equipment and approaches to valuation.</p> <p>Chapter 4: Introduction to the valuation of businesses, including factors influencing business value and approaches to business valuation.</p>										
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