

Master Level Courses - Business Economics and Administration

Course Group 1 - Finance

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc Finance	1st semester	Corporate Finance	10	460172U001	WOAI	Upon entering the course, students are expected to know basic finance equivalent to the bachelor course "Finance" (valuing projects and firms, capital structure, option pricing). Additionally, some background from the bachelor elective "Corporate Finance" (long-term financing, liquidity management, real options, mergers & acquisitions, corporate governance) will be helpful.
Msc Finance	1st semester	Asset Pricing	10	460172U011	ORAL	Upon entering the course, students are expected to know asset pricing equivalent to the course "Finance" (mean-variance analysis, CAPM), econometrics and quantitative methods equivalent to the course "Quantitative Research Methods" (OLS, hypothesis testing), microeconomics equivalent to the course "Business Economics" (utility functions and equilibrium), and basic calculus, algebra, and probability theory.
MSc Finance	1st semester	Applied Financial Econometrics	10	460182U001	WOAI	When entering the course, the students are expected to know elementary mathematics and elementary statistics corresponding to the HA courses Mathematics, Statistics, and Quantitative Methods.

Course Group 2 - Finance and International Business

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc Finance	1st semester	Corporate Finance	10	460172U001	WOAI	Upon entering the course, students are expected to know basic finance equivalent to the bachelor course "Finance" (valuing projects and firms, capital structure, option pricing). Additionally, some background from the bachelor elective "Corporate Finance" (long-term financing, liquidity management, real options, mergers & acquisitions, corporate governance) will be helpful.
MSc Finance and International Business	1st semester	Applied Econometric Methods	10	460182U028	WOAI	Basic mathematics and statistics equivalent to the courses Math (460141U003), Statistics (460141U004), Quantitative Research Methods (460141U034)
MSc Finance and International Business	1st semester	International Finance	10	460192U008	WOAI	Upon entering the course, students are expected to know corporate finance and asset pricing equivalent to the course "Finance" (mean-variance analysis, CAPM), econometrics and quantitative methods equivalent to the course "Quantitative Research Methods" (OLS, hypothesis testing), microeconomics equivalent to the course "Business Economics", and basic calculus, algebra, and probability theory.

Course Group 3 - Operations and Supply Chain Analytics

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc Operations and Supply Chain Analytics	1st semester	Tools for Analytics	5	460202U013	WOAI	Anyone with a Bachelor's degree in economics and business administration can follow the course. The student must have proper knowledge of basic use of Excel.
MSc Operations and Supply Chain Analytics	1st semester	Optimisation for Prescriptive Analytics	10	460202U006	WHAI	This course requires completion of Operations Management or course elements at a level corresponding to it.
MSc Operations and Supply Chain Analytics	1st semester	Business Process Modelling and Simulation	5	460202U008	WHAI	Bachelor degree in Economics and Business Administration
MSc Operations and Supply Chain Analytics	1st semester	Supply Chain Design and Management	10	460152U096	WOA	It is recommended that the student is familiar with basic concepts in operations and supply chain management and in management science

Course Group 4 - Business Intelligence

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc in Economics and Business Administration, Business Intelligence	1st semester	Business Intelligence and Data Management	10	460192U009	WHAI	
MSc Information Management	1st semester	IS Development and Implementation in a Business Context	10	460192U010	WHAI+WO	
MSc Business Intelligence	1st semester	Machine Learning for Business Intelligence 1	10	460202U016	WOA	Basic concepts in Statistics
MSc Business Intelligence	1st semester	Business Forecasting	5	460202U010	WOAI	Students are expected to have taken Quantitative Research Methods, or an equivalent course that covers regression analysis with a good understanding of the statistical methodology used

Course Group 5 - International Economic and Consulting

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
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MSc International Economic Consulting	1st semester	Econometric Methods in Economic Consulting	10	460162U002	WOAI	Elementary mathematics and statistics + knowledge of econometrics at a level equivalent to chapters 1-9 in J.M. Wooldridge (2018), "Introductory Econometrics: A Modern Approach, 7th Edition" ISBN-13: 978-1-337-55886-0
MSc International Economic Consulting	1st semester	Developing and Emerging Economies	5	460202U011	WOAI	
MSc International Economic Consulting	1st semester	Organisational Economics and Strategy	5	460152U057	WOAI	
MSc International Economic Consulting	1st semester	Cost Benefit Analysis	10	460152U056	WOAI	Undergraduate courses in micro and macro economics

Course Group 6 - ECON

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
Elective course	3rd semester	Bayesian Data Analysis using R and Stan	10	460192U017	WHAI	First year of Master's degree in Business Intelligence/Finance/ FIB/IEC/Logistics. For Econ students, Quantitative methods equivalent to Econometrics I
Elective course	Not specified	Logistics and Business Processes in SAP	10	460162U015	WHAI+ORAL	It is recommended that the students are well acquainted with the frameworks, concepts and theories in the textbooks: "Manufacturing Planning and Control for Supply Chain Management" by Vollmann, Berry, Whybark and Jacobs. "Designing and managing the Supply Chain: Concepts Strategies and Case Studies by Simchi-Levi, Kaminsky and Simchi-Levi.
Elective course	3rd semester	Sequencing and Scheduling	5	460202U022	WOA	Anyone with a bachelor's degree in economics and business administration can follow the course. Basic knowledge of modelling (mixed-integer programming) is strongly recommended.
Elective course	Not specified	Revenue Management	5	460162U016	WHAI	Fundamental knowledge on Linear Programming, Statistics and Simulation; Ability to using Excel Solver to solve LP problems.
Elective course	Not specified	Digital Business Development	10	460172U010	WHAI+ORAL	Bachelor in Business Administration
Elective course	Not specified	Reinforcement Learning for Business	5	460222U006	ORAL	The student must be familiar with the programming environment R. It is an advantage to have knowledge of statistics at a level of Machine Learning for Business Intelligence 1, Tools for Analytics, Applied financial econometrics, Applied Econometrics Methods or Econometric Methods in Economic Consulting.
Elective course	Not specified	Unsupervised learning with Python	5	460222U005	ORAL	Machine Learning for Business Intelligence 2 or similar
Elective course	Not specified	Real Estate Finance and Investments	5	460182U006	WOAI	The purpose of the course is to present learning of a framework, a corpus of principles, methods, and knowledge, at a level that the typical graduate student can readily understand. Though a knowledge of basic finance equivalent to the bachelor course "Finance" would be helpful, you do not necessarily need to have a background in real estate or in urban economics.
Elective course	Not specified	The Economics of Human Resources	5	460162U019	WOAI	None
Elective course	Not specified	Fixed Income Derivatives	10	460222U001	WHAI	Familiarity with basic interest rate concepts and basic option pricing theory at the level of the course Derivatives (i.e., at the level of the Hull textbook)

Course Group 7 - Management Accounting and Control

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc Management Accounting and Control	1st semester	Methods in Management Accounting Research	10	460182U009	WHAI+ORAL	All participants are expected to have a prior knowledge of methodology and statistics that is equivalent to that obtained during a BSc in Economics and Business Administration at Aarhus University
MSc. Management Accounting and Control + Elective course	1st semester	Strategic and Organisational Concepts for Management Control	5	460152U070	ORAL	
MSc. Management Accounting and Control + Elective course	1st semester	Cost Management: Theories, Models and Technologies	10	460152U075	WO	The student is expected to have passed exams in Business Economics, Management Accounting, and Financial Accounting at an undergraduate level.
MSc. Management Accounting and Control + Elective course	1st semester	Planning and Budgeting	5	460152U090	WOA	At least one course at university level in management accounting and one course at university level in financial accounting. The student must understand the principles of financial accounting and how various activities are reflected in financial statements. The student must understand the various types of costs organisations incur and the relationship among them.

Course Group 8 - Strategy, Organisation and Leadership

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
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MSc in Strategy, Organisation and Leadership, MSc in Strategic Communication, Cand .merc.jur., cand.soc. Business Psychology	1st semester	Organisational Theory	10	460152U011	WHAI	
MSc. Strategy, Organisation and Leadership	1st semester	Methods in Management and Organisation Research	10	460182U013	WHAI+ORAL	All participants are expected to have a prior knowledge of methodology and statistics that is equivalent to that obtained during a BSc in Economics and Business Administration at Aarhus University.
MSc. Strategy, Organisation and Leadership	1st semester	Strategic Leadership: Psychology and Practice	10	460202U012	WOAI	

Course Group 9 - International Business

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc International Business	1st semester	Emerging Markets, their Institutions and Challenges	10	460152U018	WOAI	
MSc International Business	1st semester	The Emergence of Global Enterprises	10	460152U009	WHAI+ORAL	
MSc International Business	1st semester	Methods in International Business Research	10	460182U018	WHAI+ORAL	All participants are expected to have a prior knowledge of methodology and statistics that is equivalent to that obtained during a BSc in Economics and Business Administration at Aarhus University.

Course Group 10 - Marketing

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc Marketing and MSc B2B Marketing and Purchasing	1st semester	Marketing Theory	5	460182U010	ORAL	Bachelor courses in marketing
MSc Marketing	1st semester	Customer Value and Innovation	5	460152U066	WOAI	
MSc Marketing	1st semester	Economic Psychology	10	460152U020	WOMC+WOAI	The student should have a social science bachelor degree including a basic course in statistics for social sciences.
MSc Marketing	1st semester	Marketing Research Methods	10	460182U014	WHAI+ORAL	All participants are expected to have prior knowledge of methodology and statistics that is equivalent to that obtained during a BSc in Economics and Business Administration at Aarhus University

Course Group 11 - B2B

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc Marketing and MSc B2B Marketing and Purchasing	1st semester	Marketing Theory	5	460182U010	ORAL	Bachelor courses in marketing
MSc. Business-to-Business Marketing and Purchasing	1st semester	Innovation in Buyer-Supplier Relationships	5	460182U011	WOAI	
MSc. Business-to-Business Marketing and Purchasing	1st semester	Business-to-Business Marketing Research Methods	10	460182U017	WHAI+ORAL	All participants are expected to have a prior knowledge of methodology and statistics that is equivalent to that obtained during a BSc in Economics and Business Administration at Aarhus University.

Course Group 12 - Commercial and Retail Management

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc in Commercial and Retail Management	1st semester	Introduction to Value Chain Management	5	460202U003	WHAI	BSc in Economics and Business Administration or equivalent
MSc in Commercial and Retail Management	1st semester	Retail Strategy and Commercial Innovation	10	460202U020	WHAI+WHAI+WHAI	BSc in Economics and Business Administration or equivalent
MSc in Commercial and Retail Management	1st semester	Consumer Behaviour in a Retail Setting	5	460202U009	WOAI	BSc in Economics and Business Administration or equivalent
MSc in Commercial and Retail Management	1st semester	Commercial and Retail Research Methods	10	460202U004	WHAI+ORAL	All participants are expected to have prior knowledge of methodology and statistics that is equivalent to that obtained during a BSc in Economics and Business Administration at Aarhus University

Course Group 13 - Innovation Management and Business Development

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc. Innovation Management	1st semester	Innovation Management Research	10	460182U015	WHAI+ORAL	All participants are expected to have a prior knowledge of methodology and statistics that is equivalent to that obtained during a BSc in Economics and Business Administration at Aarhus University.
MSc. Innovation Management	1st semester	Appropriating Innovation, Managing Intellectual Property	5	460162U013	WOA	Bachelor in business, economics or related areas.
MSc. Innovation Management	1st semester	Classic Readings in Innovation and Entrepreneurship	5	460162U010	WHAI	Bachelor in business, economics or related areas
MSc. Innovation Management	1st semester	Innovation Challenge: Hands-on Project	10	460162U011	WHAI+ORAL	Bachelor degree in business or other related fields

Course Group 14 - Information Management

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
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MSc Information Management	1st semester	Information Systems Research Methods	10	460182U022	WHAI+ORAL	All participants are expected to have a prior knowledge of methodology and statistics that is equivalent to that obtained during a BSc in Economics and Business Administration at Aarhus University
MSc Information Management	1st semester	Project Management: A Practitioner's Approach	10	460192U007	WHAI+WHAI	
MSc Information Management	1st semester	IS Development and Implementation in a Business Context	10	460192U010	WHAI+WO	

Course Group 15 - Strategic Communication

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc. Strategy, Organisation and Leadership	1st semester	Methods in Management and Organisation Research	10	460182U013	WHAI+ORAL	All participants are expected to have a prior knowledge of methodology and statistics that is equivalent to that obtained during a BSc in Economics and Business Administration at Aarhus University.
MSc. Strategy, Organisation and Leadership	1st semester	Strategic Leadership: Psychology and Practice	10	460202U012	WOAI	
MSc in Strategy, Organisation and Leadership, MSc in Strategic Communication, Cand. merc.jur., cand.soc. Business Psychology	1st semester	Organisational Theory	10	460152U011	WHAI	

Course Group 16 - MGMT Elective Courses 1

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
Elective course	Not specified	CSR and Sustainable Business	10	460222U003	WHAI	
Elective course	Not specified	Process Consultation and Change Processes	10	460162U021	WHAI+ORAL	Recommended prerequisites: It is recommended that students have a basic understanding of organisation theory equivalent to the course 460152U011 Organisational theory and a course in Organisational behavior.
Elective course	Not specified	Brand Management and Market Analysis	10	460162U052	WHAI	Students should have a fair training in marketing and market research. No particular knowledge of statistics is required, but some knowledge in using MS Excel is an asset.
Elective course	Not specified	Nudging	10	460192U022	WOAI	
Elective course	Not specified	Business Negotiation	5	460162U020	WHAI	Participants should be familiar with the basic principles of organisational behaviour, organisational theory and decision theory.
Elective course	Not specified	Managing Teams	5	460172U004	WHAI	

Course Group 17 - MGMT Elective Courses 2

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
Elective course	3rd semester	Strategic Foresight	10	460192U021	WHAI+ORAL	
Elective course	Not specified	Solving Business Problems with R	10	460202U028	WHAI+ORAL	
Elective course	Not specified	People Strategy in Startups	10	460212U019	WHAI	
Elective course	Not specified	Leading a Learning Organisation	10	460202U079	WHAI+ORAL	
Elective course	Not specified	Neuroscientific Tools for Business Executives	10	460222U004	WHAI	Students need not to have any prior knowledge of neuroscience but should have completed their bachelor's degree. Completion of courses in qualitative & quantitative research methods as well as philosophy of science is an advantage.

Course Group 21 - Auditing 2

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
Sc in Management Accounting and Control + Elective course	1st semester	Planning and Budgeting	5	460152U090	WOA	At least one course at university level in management accounting and one course at university level in financial accounting. The student must understand the principles of financial accounting and how various activities are reflected in financial statements. The student must understand the various types of costs organisations incur and the relationship among them.

Course Group 22 - Cand.soc.

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
Elective course	Not specified	Nudging	10	460192U022	WOAI	
Elective course	Not specified	Solving Business Problems with R	10	460202U028	WHAI + ORAL	
MSc Innovation Management + Elective course.	1st semester	Innovation Challenge Hands on Project	10	460162U011	WHAI + ORAL	Bachelor degree in business or other related fields

Other business courses - electives

Study programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
Elective course	Not specified	Sustainable Production and Consumption The Cross Disciplinary Challenge	5	460202U030	WHAI	
Elective course	Not specified	Sustainable Production and Consumption The Cross Disciplinary Challenge	10	460202U031	WHAI	

Master Level Courses - Economics

Course Group A - Economics

Study Programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc -Economics and Management	Not specified	Politics and Economics of the EU	10	461192U004	WO	Basic micro- and macroeconomics. In addition, participants are expected to have some basic knowledge of EU institutions.
MSc -Economics and Management	Not specified	The Economics of the Welfare State	10	461152U010	ON	Basic principles of microeconomics (household and firm models, equilibrium notions), macroeconomics (overlapping generations models, fiscal policy) and mathematics.
MSc -Economics and Management	Not specified	Microeconometrics	10	461152U065	WHAI + ORAL	Recommended courses: 3620: Econometrics I or 3625: Econometrics of Policy Evaluations
MSc -Economics and Management	Not specified	Financial Econometrics	10	461172U001	WHAI	Recommended: Econometrics I + Programming in Quantitative Economics
MSc -Economics and Management	Not specified	Development Microeconomics (P)	10	461202U016	WHAI + ORAL	The course requires knowledge, skills and competences in intermediate microeconomics, expected utility theory, and intermediate econometrics.

Course Group B - Economics

Study Programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc -Economics and Management	Not specified	Applied Micro Econometrics (P)	10	461152U013	WHAI + ORAL	Recommended: Econometrics 1
MSc -Economics and Management	Not specified	Financial Engineering	10	461202U015	WHAI + ORAL	Upon entering the course, students are expected to have a solid understanding of the Black-Scholes framework, no-arbitrage pricing theory, and working knowledge of stochastic processes/calculus equivalent to what is covered in the master's course "Derivatives". Prospective course participants should also note that Financial Engineering is a quantitative course and that a familiarity with programming and a desire to work with advanced mathematics and mathematical models are expected.
MSc -Economics and Management	Not specified	Machine Learning Methods in Empirical Economics	10	461182U001	ORAL	Students must have prior knowledge of some relevant software for computation and data analysis, e.g., R. Recommended courses: 3620 - Econometrics I / 3625 - Econometrics of Policy Evaluation 3611 - Programming in Quantitative Economics
MSc -Economics and Management	Not specified	Accounting for Decision and Control	10	461152U001	ORAL	Basic Cost/Management Accounting, Undergraduate Microeconomics.
MSc -Economics and Management	Not specified	Theories of the Firm	10	461152U003	WO	Knowledge of microeconomics is a must.
MSc -Economics and Management	Not specified	Political Economy	10	461182U002	ORAL	Students are expected to know basic mathematics for economics (e.g., how to solve a static maximisation problem, density functions, conditional expectation). A knowledge of basic concepts in game theory (e.g., backward induction, Nash equilibrium) is also expected.

Course Group C - Economics

Study Programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
MSc -Economics and Management	Not specified	Labour Economics	10	461152U004	ORAL	Microeconomics and econometrics corresponding to the levels of 3410: Micro 1 and 3620: Econometrics 1.
MSc -Economics and Management	Not specified	Micro 2	10	461182U003	ON	The course requires knowledge, skills and competences in the areas of: Game theory (static and dynamic games of complete and incomplete information) Mathematics (integration and differentiation, constrained and unconstrained optimization with several variables) Statistics (probability distributions, expectations) Intermediate microeconomic theory (consumer theory, partial and general equilibrium, market failure) Contract theory (basic foundation of models of hidden action and hidden information) as acquired e.g. in the course 3410: Micro 1.
MSc -Economics and Management	Not specified	Macro 2	10	461202U001	ON	The course requires knowledge, skills and competences in the areas of: Intermediate macroeconomic theory (IS-LM model, Solow model). While Macro 2 is taught as a self-contained course, knowledge of 3505: Macro 1 (neoclassical growth model, consumption and investment) will be helpful. Mathematics (integration and differentiation, optimisation with several variables). Statistics (expectations). Helpful will be knowledge of basic microeconomic theory (consumer theory, producer theory, partial and general equilibrium, welfare theorems, market failure).
MSc -Economics and Management	Not specified	Health Economics	10	461152U042	ORAL	It is recommended that students have some knowledge of causal inference and have taken at least one of the following subjects: 4407: Labour Economics 4425: Micro 2 4615: Microeconometrics

Course Group D - Economics

Study Programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
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MSc -Economics and Management	Not specified	Environmental Economics (P)	10	461192U005	WHAI - ORAL	Recommended: Solid knowledge of empirical methods and microeconomics.
MSc -Economics and Management	Not specified	Time Series Econometrics	10	461152U066	ORAL	Recommended courses: Econometrics I
MSc -Economics and Management	Not specified	International Economics	10	461172U002	WO	For the part of international macroeconomics, students are expected to know basic mathematics for economics (including infinite horizon maximization problems) and microeconomics. For the part of international trade, students are expected to know basic concepts about international trade (such as tariff, comparative advantage, gains from trade, equilibrium, etc.), and mathematical methods for economics (how to solve a static maximization problem). Students are also encouraged to get familiar with basic probability concepts (such as density functions, conditional probability, conditional expectation, etc.).
MSc -Economics and Management	Not specified	Economic Growth and the Environment	10	461192U006	ON	General knowledge of Macroeconomic Modelling and the basic mathematical prerequisites necessary for economic modelling. Recommended: 3505: Macro 1
MSc -Economics and Management	Not specified	5646: Applied Time Series Econometrics (P)	10	461212U002	WHAI - ORAL	Students must have prior knowledge of relevant software for computation and data analysis suitable for the chosen exam project. No requirement of specific package. Recommended academic prerequisites: Econometrics I (3620)
Cross-disciplinary Seminars on Denmark						
Study Programme	Semester	Course Title	ECTS	Course Number	Exam Type	Specific Pre-requisites/Comments
Exchange student course	n/a	Danish Society A: Culture, Institutions and Markets	5	460201U005	WHAI	This course is particularly suited to international students and/or students with no prior knowledge of Danish culture and society wishing to get an understanding of Danish society.
Exchange student course	n/a	Danish Society A+B: Culture, Institutions and Markets with an International and Comparative Perspective	10	460201U006	WHAI+WHAI	This course is particularly suited to international students and/or students with no prior knowledge of Danish culture and society wishing to get an understanding of Danish society.