



Supply Chain Financial Management 2026-2027

Credits: 3

Code: 62002A-0003 I

Language of Instruction: English

Faculty

Name: Vincent Van Bockstaele

Learning Outcomes

LO1	<i>program specific</i>	The Master in GSCM develops and critically evaluates end-to-end supply chain strategies that align with organizational goals and respond to dynamic market conditions.
	<i>course specific</i>	Students will value supply chain decisions from a financial and strategic perspective and formulate recommendations that align operational choices with organizational objectives and financial performance.
LO2	<i>program specific</i>	The Master in GSCM uses quantitative methods, simulation tools, and optimization models to solve complex supply chain problems and support data-driven decision-making.
	<i>course specific</i>	Students will apply quantitative financial methods and performance metrics, including break-even analysis, working-capital indicators, TCO, cost-to-serve, ROI, NPV and IRR, to support financial data-driven supply chain decisions.
LO3	<i>program specific</i>	The Master in GSCM analyzes, designs, and manages international logistics flows, distribution systems, and production networks with attention to efficiency, resilience, and sustainability.
	<i>course specific</i>	Students will analyze the financial implications of international logistics, sourcing and distribution decisions, including transportation costs, inventory, landed cost, tariffs, customs duties and total cost of ownership.

LO7	<i>program specific</i>	The Master in GSCM works effectively in multidisciplinary and multicultural environments, manages stakeholder relationships and navigates complex global supply chain ecosystems.
	<i>program specific</i>	Students will integrate financial and supply chain perspectives in cross-functional decision-making and communicate financial implications effectively to relevant internal and external stakeholders.
LO8	<i>program specific</i>	The Master in GSCM assesses regulatory frameworks, risk management practices, geopolitical challenges and governance structures, and formulates responsible and compliant supply chain policies.
	<i>course specific</i>	Students will assess financial, regulatory and cross-border risks in supply chains and evaluate appropriate mitigation measures related to tariffs, customs, trade finance, transfer pricing, currency, credit and contractual risk.

Course Content

The following topics will be discussed in the course:

- Bridging the Gap: Finance Meets Supply Chain
- Cost Structures in Logistics and Transportation
- Workshop: Cost Structures
- Financial Fundamentals for Supply Chains and Financial Calculations
- Working Capital and Inventory Financing
- Workshop: Financial Fundamentals for Supply Chains
- Total Cost of Ownership and Cost-to-Serve
- Tariffs, Customs, and Trade Finance
- Transfer Pricing in Global Supply Chains
- Workshop: Pharma Logistics and Total Cost of Ownership
- Investment Decisions and ROI in Logistics
- From Turbulence to Turnaround: The Airline Finance Playbook
- Supply Chain Financial Risk Management
- Integrated Business Planning and Budgeting

Prerequisites

None

Method of Instruction

The course combines lectures, guided financial calculations, case-based learning, workshops, class discussions, a guest lecture and a concluding Q&A session. Lectures introduce the core concepts and financial techniques relevant to supply chain management, after which students apply these concepts through calculations, worked examples and realistic business cases. Particular emphasis is placed on three integrated workshops covering cost structures, financial fundamentals for supply chains, and pharmaceuticals and transfer pricing, in which students prepare and discuss applied financial decision-making problems. This combination of theoretical instruction and applied exercises is intended to develop students' ability to interpret financial information, perform relevant calculations, evaluate alternatives and formulate financially substantiated supply chain decisions.

Assessment Method & Criteria

The course is assessed through an individual open-book written examination, which accounts for 100% of the base course grade, with a possible +1/−1 point adjustment based on students' preparation for and participation in case discussions and workshops. The examination assesses conceptual understanding, accuracy of quantitative analysis, correct application of financial methods and indicators, interpretation of results, ability to apply financial concepts to supply chain decisions, critical evaluation of alternatives and risks, and clarity of argumentation. The participation adjustment reflects the quality of students' preparation, active and constructive contribution to discussions, application of course concepts during workshops, and the quality of the reasoning used to support proposed solutions.

Study Materials

All course materials will be made available on Brightspace.