

# Course Descriptions Master 2022-2023

Course Title Strategies and Technologies in the Supply Chain  
 Course Code EBC4018  
 ECTS Credits 6,5  
 Assessment Whole/Half Grades

| Period | Start    | End        | Mon | Tue | Wed | Thu | Fri |
|--------|----------|------------|-----|-----|-----|-----|-----|
| 1      | 5-9-2022 | 21-10-2022 | X   |     | X   |     |     |

Level Intermediate/Advanced

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Language of instruction English

Goals Serves as introduction to the discipline, and provides an overview of the pivotal elements of the supply chain management program. Provides students with strategic insights into managing supply chains and a solid basis for understanding the subsequent elements of the program.

Description PLEASE NOTE THAT THE INFORMATION ABOUT THE TEACHING AND ASSESSMENT METHOD(S) USED IN THIS COURSE IS WITH RESERVATION. A RE-EMERGENCE OF THE CORONAVIRUS AND NEW COUNTERMEASURES BY THE DUTCH GOVERNMENT MIGHT FORCE COORDINATORS TO CHANGE THE TEACHING AND ASSESSMENT METHODS USED. THE MOST UP-TO-DATE INFORMATION ABOUT THE TEACHING/ASSESSMENT METHOD(S) WILL BE AVAILABLE IN THE COURSE SYLLABUS.

A firm's competitive strategy establishes the set of customer needs to be addressed by the products and/or services that it offers. A firm's supply chain strategy establishes how these offered products/and or services are transformed from inputs in the hands of suppliers to outputs in the hands of end users. Unfortunately, in the past twenty years designing and managing supply chains has become increasingly complex. Most companies now face fierce competitive environments together with geographically dispersed suppliers and customers. These developments have rendered supply chain management a key strategic imperative for contemporary business and non-business organizations. To make matters more challenging (and exciting!) we find ourselves living through the emergence of a set of technologies that are changing the relationship between the physical and the digital world. New technological possibilities in the field of additive manufacturing, the internet of things, blockchain, or artificial intelligence are and will continue to transform the possibilities afforded to supply chain management. In parallel, these developments have also underpinned the emergence of the supply chain professional, a manager required to possess certain types of skills and capabilities. Chief among them is the ability to understand the main strategic issues involved in coordinating the entire value chain that allows companies to execute and re-configure effective business models. To develop such an understanding is what this course aims to achieve. The course introduces students to the main themes involved in thinking strategically about supply chains and to the most recent academic knowledge on said themes. As a result, students will develop a solid basis for conceiving and implementing sound supply chain decisions. As a side effect, students will also learn how to extract relevant findings from academic papers and identify their applicability to contemporary managerial challenges.

Literature The literature for the course mainly consists of scientific articles published in the most respected supply chain management journals. The articles were carefully selected to provide students with recent overviews of the topics covered in the course. Because the articles come from very prestigious journals, some of them may deploy complex research methodologies with which students are unfamiliar. Even though students are invited and encouraged to challenge themselves, this is not a methodology course. In this sense, students should not be overly focused on the methods used by each paper, but rather on the implications of the results derived through the methods. Students are expected to apprehend the topical relevance of the papers, to become informed by their literature reviews, to consider the advantages and disadvantages of their research contexts, to understand the reported results and to reflect on their practical significance. This means that if a certain methodology (e.g. a statistical model) is beyond students' current capabilities they should allocate their attention to the other sections of the paper.

Prerequisites Courses and workload are very demanding for all IB Master courses. Exchange students need to have obtained a Bachelor degree in business. Exchange students need to major in supply chain management/logistics in their Master.  
 An advanced level of English

Teaching methods Presentation / Lecture / Assignment / Papers / Groupwork

Assessment methods Final Paper / Participation / Presentation

Evaluation in previous academic year For the complete evaluation of this course please click <http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM>

This course belongs to the following programme / specialisation

|   |                                   |
|---|-----------------------------------|
| Master Business Research - No specialisation            | Year 1 Disc- IB Supply Chain Mgmt |
| Master Business Research - Operations Research          | Year 1 Elective Course(s)         |
| Master Business Research - Operations Research          | Year 2 Elective Course(s)         |
| Master Economics and Strategy in Emerging Markets       | Elective Course(s)                |
| Master Human Decision Science                           | Elective Course(s)                |
| Master International Business - Supply Chain Management | Compulsory Course(s)              |
| SBE Exchange Master                                     | Master Exchange Courses           |
| SBE Non Degree Courses                                  | Master Courses                    |