

# DATA SCIENCES AND OPERATIONS

## FALL 2024

**DSO 588** — *Supply Chain Finance*

*Section(s) – 16326*

**Professor**

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**When**

*ONLINE: Tuesdays, 6:30 PM – 9:30 PM*

**Office**

*ONLINE*

**Units**

*3.0*



## WHY TAKE THIS COURSE?

Graduate students in Engineering, Marketing, Strategy, Finance and Operations who aspire to executive and operations roles in the company.

## COURSE OBJECTIVES

This course is designed to provide insights into supply chain financing and finance and provides a unique view of finance within supply chain management. It is critical for supply chain, finance, and marketing executives and will provide them with “business acumen” - a finance-oriented understanding of the operations of a company. It will give students an understanding of the supply chain impacts on shareholder value and financial statements and provide a grasp of the financial levers and various financing methods for the global supply chain.

## KEY CONCEPTS

- The supply chain, its functions, and the impacts that it has on the strategic success, shareholder value and financials of a company
- Analyzing the operations and supply chain performance of a company through its financials
- Approaches to optimizing working capital, cash and operational costs, and
- Financing the supply chain, and the instruments that help finance the operations of the company while taking supply chain risk into account.

## COURSE DESCRIPTION

Today’s business environment is volatile, uncertain, competitive and risky. More than ever, it is obvious that individual companies do not compete with each other – supply chains compete. The focus of a company is usually to integrate and optimize the flow of goods, cash and information from point of first supply to the end consumer and back. However, a critical component of this - the flow of cash and finance - is typically fragmented and not understood in the organization or by supply chain executives. Yet it is an important component of their success in business. The supply chain typically accounts for 60 – 80% (and sometimes more) of a company’s costs, while the cash conversion cycle and free cash flow from operations are primary indicators of sustained business success. We will address operational finance (the issues related to the performance and financials of a company's global supply chain in terms of cash flow, cost and capital), the costs of financing, the various methods and instruments used in financing supply chain & operations, while considering the major risks involved.