

IDSc 6465 Emerging Technologies and Digital Transformation

CARLSON SCHOOL
OF MANAGEMENT
UNIVERSITY OF MINNESOTA

Course: IDSC 6465 Emerging Technologies and Digital Transformation

Credits: 4 Global credits (international requirements eligible)

Prerequisites: none

Description

We are in the midst of a transformation of the business environment where technologies are altering the economics of scale, firm scope and firm learning. The imaginative application of capabilities created by information technologies are enabling firms to fundamentally rethink the structures and processes involved in value creation. Increasingly, traditional businesses are adapting to changes in the competitive environment by reviewing assumptions in multiple domains of strategy and operation—in how they define and address customer needs, how they assemble resources and capabilities to compete, how they use data and in general, how they innovate to be viable and create value in rapidly changing environments. We also see firms making significant changes to how they manage human capital, leverage communities outside the firm, build platforms and transform business process in ways that can be integrated into existing structures and organizational practices.

The class draws on theoretical frameworks to examine and make sense of these changes using cases from real-world firms in a variety of industries such as P&G, Fidelity, Accenture, Honeywell Aerospace, Lego, Deloitte and Gap Inc.

The overall goal of the class is to help students appreciate the complex changes to the logic of organization of work and innovation by technology developments.

Objectives

- Appreciate the complex challenges offered by developments in information technologies
- Understanding the transformation of working, changes to organizational boundaries and patterns of innovation in firms.
- Gain practical experience by working on global projects applying concepts to real life firm problems

Participating in a project with a global perspective will be an important component of the classwork.