

MIS 3537 Study Guide

Test 2

The test will consist of all the topics that we discussed in the class, as well as the material posted by the instructor on the course blog. Here is the list of relevant topics. While I have tried to make this list as comprehensive as possible, I may have inadvertently missed a topic or two, which may be included in the exam.

Week 1

Introduction to Supply Chain

- What is a Supply Chain and Supply Chain Management

Week 2

How Does the Internet (I/T) Affect the Supply Chain

- How does the Internet and I/T Drive Changes
- What has not changed because of e-business

Week 3 / 4

Electronic Marketplaces

- What is an eMarketplace
- WWT / ClearOrbit Case
 - Challenges affecting Supply Chain Operations
 - Software options and choices
 - Benefits of Internet enabled collaboration

Week 5

Bullwhip Effect

- What is Bullwhip effect? How to Counteract?

Week 6

Internet of Things / RFID

- What is the Internet of Things (IOT)? Characteristics
- Examples of IOT
- Evolution of IOT
 - Roots
 - Where Going (future)
 - Enabling technologies
- How does IOT Affect Supply Chains

- RFID
 - Components
 - Applications
 - Challenges
 - Security / Privacy concerns

Metro Group & RFID

- How to evaluate and implement new Technology
- Tradeoffs of using new technology
- New Technology Adoption Cycle
- IOT in the future

Week 7

Information Goods Supply Chain

- Characteristics of information goods
- Disruptive Innovations
 - Video rental business
 - How iPod changed the world
- Distribution strategies of information goods
 - Music
 - Movies
 - Software
- Hulu case
 - Supply chain in TV industry
 - Video on demand

Week 8

eProcurement

- Business Process vs. Function
- Importance of eProcurement
- Strategic sourcing
- eContracting
- Types of supply chain contracts
- Extracting value
- Strategic Sourcing - Why
- Design collaboration
- Supplier assessment factors
- Auctions
 - Types of auctions
- Xbox case
 - Product lifecycle and supply chain choices

Week 9

eFulfillment and Distribution Strategies

- Definition
- Business Process
- Value added services in eFulfillment
- Logistics postponement
- Dematerialization
- Resource exchange
- Leveraging Shipments / Delivery value density
- Designing distribution networks
 - Costs and benefits
 - Design options
- Amazon Europe Case

Week 10

Global Supply Chains – Ethics and Environment

- Ethics
- Difficulty in ensuring ethics in a global supply chain
- Ethical concerns in supply chains
- Fair trade
- Ethical consumerism
- Green Supply Chains
- Green Sourcing
- Green Production
- Green Distribution
- Green Reverse Logistics
- Do Ethics work?
- Starbucks case

Week 11

Supply Chain Technology Standards

- Supply Chain Integration Technologies – Getting them to talk
- EDI
- RosettaNet
- XML / Web services
- Standard wars in collaboration technologies
- RosettaNet case
 - Network externalities and standards adoption

Week 12

Final Lecture

- What did you Learn?
- Basic Concepts
- Innovative ways Supply Chain and IT Help Firms
- Mindset
- Business Process View - Get Smart
- Thoughts on Success

Week 13

Global Supply Chain Management Simulation Game

- Key lessons learned
- Making supply chain decisions
 - Product design
 - Forecasting
 - Production

Week 14

Guest Lecture – ____

- ____