# Schedule and outline

## Texts
- Virtualization for Dummies
- Xenserver Administration Handbook
- ESXi Documentation from VMware
- VMWare vsphere Essentials

## Week 1
- **Topics:**
  - Hypervisors
  - Types of virtualization
- **Readings:**
  - Dummies chapter 1,3
  - Explained by vmware
- **Intro Slides**
- **More Slides**
- **NFS Slides**
- **Assignment**

## Week 2
- **ESXI and VMWare**
  - Installation
- **Readings:**
  - VyE chapter 1
- **Slides**
- **Assignment**

## Week 3
- **VMWare Server Appliance**
  - Installation
  - **Installation slides**
- **Readings:**
  - VyE chapter 2
  - create cluster
  - add host to cluster
  - Move hosts to cluster
  - Create cluster datastore
- **Slides**
- **Slides**
- **Assignment**

## Week 4
- **Virtual Machines**
- **FreeNAS**
Howto

Readings:
- VVE Chapter 3
- VVE Chapter 4

My how-tos:
- Create virtual machine using vcsa
- Install VMware Tools Linux
- Create an VM on ISCSI Datastore
- Connect VMWare to iscsi datastore
- Add another ISCSI target to vmware
- Create an ISCSI target on freenas

Slides

Assignment

Week 5

Readings:
- VVE Chapter 6
- Networking concepts overview
- vSphere Standard Switches
- vSphere Distributed Switch Architecture

My how-tos:
- Create an eSXI port group and new vswitch
- Add a vm to a vSwitch
- Create distributed switch

Assignment

Slides

Week 6

Readings:
- Storage overview
- DRS Settings

Assignment

Slides

Slides

Week 7

Assignment

Exam on VMWare

FreeNAS

Week 8

Topics:
- Installing Xenserver
- Creating virtual machines
- Creating shared storage

Readings:
- MCX chapter 1, only the sections on [Planning and Installing Citrix XenServer] through [Installing and setting up Xencenter]
- Administrators Guide Section 5.1

Slides
Week 9

- Topics:
  - VM Memory
  - Virtual Machines
- Readings:
  - MCX chapter 4

Week 10

- Topics:
  - Pools
  - Disaster recovery
  - backups
  - snapshots
  - exports and imports
- Readings:
  - MCX chapter 5

Week 11

- Upgrades
  - rolling pool upgrade
- User management?
- Readings:
  - XAH chapter 8
  - XS 7 Documentation ch 8

Week 12

- Metrics and Monitoring
- Networking?
- Stress testing? Performance Evaluation

Slides
Assignment