



VIRTUALIZATION, STORAGE, AND CLOUD TECHNOLOGIES — ISTC 2150

A. Course Description

- **Credits:** 3.00
- **Lecture Hours/Week:** 2.00
- **Lab Hours/Week:** 1.00
- **OJT Hours/Week:** 0
- **Prerequisites:**
 - ISTC 2035: Operating Systems III
- **Corequisites:** None
- **MnTC Goals:** None

This course covers the fundamentals of virtualization and network storage technologies. Topics covered in this course include Network Attached Storage, Storage Area Networks, Hypervisors, virtual machines, cloud-based technologies, and additional related technologies. Prerequisites: ISTC2035 Operating Systems III

B. Course Effective Dates: 5/22/14 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

1. Demonstrate fundamental knowledge in cloud-based technologies including their architecture, setup, maintenance, usage, and providers.
2. Demonstrate fundamental knowledge in setup and maintenance of Storage Area Networks.
3. Demonstrate fundamental knowledge in virtualization technologies including different hypervisors and methods for creating and maintaining virtual machines.
4. Demonstrate fundamental knowledge in setup and maintenance of Network Attached Storage.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment

As noted on course syllabus

G. Special Information

None noted