

Course Description

INFX 546 – Networking Technology

INFX 546 – Networking Technology (4Cr): Theory, terminology, concepts and best practices involved with the technologies found in modern converged networks based on the foundation covered in INFX 504. Each technology will be viewed from the perspective of purpose, user access, organizational fit, mission alignment, as well as security and privacy issues. Prerequisite: INFX 504

Subtitle: Networking Technology for Managers.

This course looks in greater depth at the technologies introduced in INFX 504. In looking at each technology and its requirements, the focus will be determining suitability based meeting defined requirements, user access, organizational fit, mission alignment, as well as security and privacy issues.

There will be presentations on some technologies at a higher level (non-hands on) but there will also be hands on exercises to demonstrate some fundamentals. The goal is to go only as deep as necessary to help you become a knowledgeable leader who can understand the impact of network and security technologies, participate in planning, make decisions and work comfortably with staff and consultants.

This course will explore how the various Internet and enterprise networking technologies are implemented, how they work, and any accommodations required of the existing network. While not requiring a high level of computer experience, the course assumes students have a basic familiarity with the skills and concepts covered in INFX 504.

When appropriate the module readings and discussions will also look at current events as well as the impacts on the individual and organization of the featured technologies. We will also look at the impact of Globalization on technology resources and planning.

Note: Many students follow this course with **IMT 548 Information System Design** during Fall Quarter as a way of extending the technology portion of their education.

Degree Programs

- Masters of Library and Information Science
- Masters of Science in Information Management

Course Justification

To develop a working understanding of the concepts, terminology and technologies found in modern converged networks. Each technology will be evaluated for organizational fit, user access, mission alignment, return on investment as well as any security or privacy issues. The course prepares students for leadership roles in evaluating and making decisions about network technologies being considered by the organization.

Course Format

This course can be offered either as an online or residence course. Online course will include recorded lectures, discussion (goPost) boards, ePeer assessment of some skills assignments, and projects involving technology implementation or network design. Resident courses can substitute lecture discussion for the recorded lectures and discussion boards. The course projects are designed

to challenge both new and more advanced students allowing each to improve from their individual starting point. The course is Four (4) Credits.

Course Objectives

Upon completion of the course, the student will be able to:

- Define and discuss the technologies and concepts found in today's networks.
- Understand the impact of these technologies on user access and availability.
- Develop basic network designs to meet device and organization requirements.
- Work with a variety of communication and collaboration technologies.
- Explain and discuss technologies and best practices to secure organization resources.

Outline of Course Content

- Security and Privacy
- Networking Design
- Servers and Server Architecture
- Wireless Technology Issues
- Data Centers and NOCs
- Web Presence Technologies
- Collaboration Technologies
- Unified Communications
- New Technologies
- Globalization

Assessment

Each major subject area will have one or more tests, lab exercises, or projects to be completed.

Suggested Readings

Selected Web-based readings and documents are assigned to supplement the material and technologies presented during the lectures.

