A. Course Description

Credits: 4  
Prerequisites: MIS 310 Principles of Management Information Systems  
Corequisites: None

Lab Hours/ Weeks:  
MnTC Goals: None

Managers need to know how to manage the diverse distributed computing environments in which they work, and leverage the opportunities these architectures provide. Integration of data and users, graphics and telephony are illustrated through emphases on client/server and N-Tier architectures, Internet, intranet/extranet, groupware, mobile, cloud and other technologies. This elective course reviews state-of-the-art technologies in each of the basic software and hardware arenas, while emphasizing management models and higher-level analysis, including the relationship with general database strategy and data warehousing. Practical projects are assigned, giving students real-world opportunities to use the tools to enhance their work and build productivity. Theory and models are taught with a management perspective as opposed to platform-specific training. Participants are asked to complete a comprehensive and applied class project and final exam.

B. Course Effective Dates: 08/24/2002 - 05/04/2017 05/05/2017 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Students in MIS 462 will learn the concepts related to managing diverse and distributed computing environments.
2. Students will learn about enterprise architectures, integration of data and users, graphics and telephony illustrated through emphases on client/server and N-Tier architectures, Internet, intranet/extranet, and groupware and other technologies including but not limited to: SOA; Cloud; Distributed Methods; Sockets and Ports; Firewalls; Distributed Processing; Stack Frame; Marshalling; Middleware; Security; Distributed File Systems; Name Services; Timing and Synchronization; Election and Multicasting; Transactions; Replication; Multimedia; Distributed Memory.

E. Learning Outcomes (MN Transfer Curriculum)

This contains no goal areas.

G. Special Information

Recommended: Completion of all MIS Tier One courses (MIS 320, 328, 335 and 467) before taking this course.