

**GEORGE MASON UNIVERSITY  
SCHOOL OF INFORMATION TECHNOLOGY & ENGINEERING**

**TCOM-505  
NETWORKED MULTI-COMPUTER SYSTEMS  
(1.5:1.5:0)**

**Spring 2008**

**Instructor:** Dr. Peter W. Pachowicz  
703-993-1552; ppach@gmu.edu  
Office Hours: Wednesdays 2:00 – 3:30pm, and by an appointment

**Topics Covered:**

1. Introduction to multi-computer distributed systems
2. Client/server model
3. Multi-server architectures
4. Network operating system
5. Distributed file system and principles of replication
6. Scaling up
7. Robust computer architectures
8. Federated DB and data warehousing
9. Replication architectures
10. C/S distributed system management
11. Other issues

**Grade:** Midterm: 50%  
Final: 50%  
Quizzes - not graded

**Course Text:**

- Distributed Systems: Concepts and Design. G. Coulouris, J. Dollimore and T. Kindberg, Addison-Wesley, 4<sup>th</sup> Edition, 2005.
- Client/Server Survival Guide. R. Orfali, D. Harkey and J. Edwardes, Wiley, 3<sup>rd</sup> Edition, 1999.
- Additional materials may be used through this course.