Network Programming - Fall 96

66-4961

Course:	Network Programming
Time & Place	Monday & Wednesday 3:30-4:50PM, SA 5510
Instructor:	Dave Hollinger Email: hollingd@cs.rpi.edu Office: Amos Eaton 219 Phone: 276-2860 Lab: Amos Eaton 117 Phone: 276-2667 Office Hours: Monday & Wednesday 1-3 PM
Teaching Assistant:	Roddy (*Mr. Network Programming*) Collins Email: collinsr@cs.rpi.edu Office: AM 204 Office Hours: Tuesday & Thursday 1-3 PM
Textbooks:	Unix Network Programming, W. Richard Stevens Understanding CORBA, Otte, Patrick & Roy
Grading:	
Tests (2)	30%
Homework/Projects	45%
Term Project	25%

Other Books of Interest:

- <u>Adventures in UNIX Network Applications Programming</u>, Rieken & Weiman
- <u>The Art of Distributed Applications</u>, Corbin.
- <u>Computer Networks</u>, Tanenbaum
- <u>Internetworking with TCP/IP, Volume II, Principles. Protocols and Architectures</u>, Comer
- <u>Internetworking with TCP/IP Volume III, Client-Server Programming and Applications</u>, Comer & Stevens, D.
- <u>Power Programming with RPC</u>, Bloomer.
- <u>Network Security. Private Communication in a Public World</u>, Kaufman
- <u>Sun Network Programming Guide</u>, Sun Microsystems
- <u>Corba - A Guide to Common Object Request Broker Architecture,</u> Ben-Natan.

Topic Schedule and Reading List:

Week#	Date	Topic	Reading
1	8/26	Networking Overview, Unix	Stevens Ch. 1,2
2	9/2	Unix Interprocess Communication Networking & the OSI Reference Model	Stevens Ch. 3,4
3	9/9	Bridges, Routers & Gateways TCP/IP, Sockets Programming	Stevens Ch.5,6
4	9/16	Client/Server Programming	Handouts
5	9/30	Case Studies - TFTP, LPD, SMTP, HTTP Bridge, Router & Gateway software	Stevens Ch. 12,13, Handouts
6	10/7	XDR, RPC programming	Stevens Ch 18, Handouts
7	10/14	RPC Programming	Handouts
8	10/21	Network Security	Stevens Ch. 19, Handouts
9	10/28	CORBA Introduction	Otte Ch. 1,2, Handouts
10	11/4	CORBA Architecture & IDL CORBA Application Design	Otte Ch. 3 Otte Ch. 4
11	11/11	CORBA Design Issues OMG IDL	Otte Ch. 6 Otte Ch. 7
12	11/18	Special Topics (TBA)	Handouts
13	11/25	Special Topics (TBA)	Handouts
14	12/2	Term Project Presentations	
15	12/9	Term Project Presentations	

Important Dates:

9/13	Homework #1
9/27	Homework #2
10/11	Homework #3
10/16	TEST #1
10/25	Homework #4
11/8	Homework #5
11/11	Term Project Proposal
11/25	TEST #2
12/2	Term Project Presentations
12/9	Term Project Writeup

Class Participation

Participation in class discussions is a required part of the course. Loudmouths and know-it-alls are welcome.Please keep in mind that quality of participation is more important than quantity.

Academic Integrity

Cheating will not be tolerated. If you don't have enough time to finish a project - please discuss your situation with the instructor before the due date.