

# CS 480 – ADVANCED INTERNETWORKING - SPRING 2013

Weisberg Division of Engineering and Computer Science  
College of Information Technology & Engineering  
Marshall University

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## Classroom Sections, Locations, and Meeting Times

Section: 201      CRN: 3031      Days: MW      Time: 2:00 – 3:15      Location: GH206A

## Instructor

*Jonathan F. Thompson*

## Course Description

Continuation of CS320 - Internetworking, with an emphasis on a series of hands-on lab exercises.

## Pre-requisite:

CS 320 – Internetworking

## Textbooks

Liebeherr and Zarki, *Mastering Networks: An Internet Lab Manual*, Addison-Wesley, 2004, ISBN 978-0-201-78134-2

Parziale, et. al., *TCP/IP Tutorial and Technical Overview*, IBM, Poughkeepsie, NY 12601  
Available online at <http://www.redbooks.ibm.com/pubs/pdfs/redbooks/gg243376.pdf>

## Grading Policy

Course grades will be based class attendance, participation, and decorum (10 points), lab reports (50 points), midterm exam (20 points), and a final exam (20 points).

## Course Schedule (subject to change)

Wk	Monday	Wednesday
1	14-Jan: Course Introduction, The Internet Lab 1: Intro to the Internet Lab	16-Jan: Networking Concepts, TCP IP Example
2	21-Jan: Holiday (No Class)	23-Jan: IP Addresses
3	28-Jan: Data Link Protocols, ARP, ICMP Lab 2: Single Segment IP Networks	30-Jan: IP Protocol
4	04-Feb: IP Forwarding, Router Architecture Lab 3: Static routing	06-Feb: Routing Information Protocol
5	11-Feb: OPSF Protocol	13-Feb: Border Gateway Protocol Lab 4: Dynamic Routing (RIP, OPSF, BGP)
6	18-Feb: TCP and UDP	20-Feb: TCP part I
7	25-Feb: TCP Part II Lab 5: LAN Switching	27-Feb: Lab Day
8	04-Mar: Lab Day All outstanding lab reports are due	06-Mar: Midterm Exam
9	11-Mar: LAN Switching Lab 6: Transport Protocols (UDP/TCP)	13-Mar: Exam Results
10	25-Mar: NAT and DHCP Lab 7: NAT and DHCP	27-Mar: Lab Day
11	01-Apr: DNS Lab 8: The Domain Name System	03-Apr: Lab Day
12	08-Apr: SNMP Lab 9: SNMP	10-Apr: Lab Day
13	15-Apr: IP Multicasting Lab 10: IP Multicast	17-Apr: Lab Day
14	22-Apr: Lab Day Lab 11: Wiring Lab	24-Apr: Lab Day
15	29-Apr: Lab Day	01-May: Last Class All outstanding lab reports are due