91.520 Digital Storage Architecture  
Fall 2010  
Class Schedule

Sep  
1  W  Introduction, basic system architecture, disk drives  
   • reading assignment #1  
   • **programming assignment #1**  
   • on-line slides_01  

8  W  Disk drives, performance measures, PCI introduction  
   • reading assignment #2  
   • on-line slides_02  

15 W  PCI and PCI-X bus implementation, RAID introduction  
   • reading assignment #3  
   • on-line slides_03, on-line slides_04, on-line slides_08, on-line slides_09, on-line slides_10  

22 W  RAID details, SCSI parallel implementation, SCSI commands,  
   • reading assignment #4  
   • **programming assignment #1 due, programming assignment #2 handed out**  
   • on-line slides_05, on-line slides_06  

29 W  PCI configuration programming, building embedded applications, developing programming assignment #2, SCSI programming with the SG interface  
   • on-line slides_07A, on-line slides_07  

Oct  
6  W  SCSI discovery and SG programming, introduction to Fibre Channel, review for Exam #1  
   • reading assignment #5  
   • on-line slides_11  

13 W  EXAM #1, disk devices, PCI and PCI-X, RAID, SCSI  

20 W  Review exam, Fibre Channel details, Infiniband introduction  
   • reading assignment #6  
   • **programming assignment #2 due, programming assignment #3 handed out**  
   • on-line slides_12
Oct (cont’d)
27  W   Infiniband details, PCI express introduction
       • reading assignment #7
       • on-line slides_13, on-line slides_14

Nov
  3  W   PCIe details, SRIOV introduction
       • reading assignment #8
       • programming assignment #3 due, programming assignment #4 handed out
       • on-line slides_15A-E

10  W   ********** Thursday Class Schedule, NO CLASS

17  W   SRIOV, MRIOV, Distributed File System Protocols
       • reading assignment #9
       • programming assignment #4 due, programming assignment #5 handed out
       • on-line slides_15A-E, on-line slides_18-20

24  W   ********** Night Before Thanksgiving, NO CLASS

Dec
  1  W   iSCSI deployment, review for Exam #2
       • on-line slides_21-23

  8  W   EXAM #2, Fibre Channel, Infiniband, PCIe, NFS, CIFS, iSCSI
       • programming assignment #5 due