2.	Compare, compile and/or install kernel modules and device drivers
3.	Integrate, manage and query the kernel modules
4.	Create and use intermediate level shell scripts
5.	Compare different methods of automation and implement the most appropriate
6.	Integrate and implement network and related services
7.	Differentiate between entries in the system log files and use the appropriate ones to troubleshoot and manage the network
8.	Estimate security measures and implement appropriate countermeasures
9.	Discuss the tasks of a network systems administrator

Topics/Content/Outline

Topics include: compiling and installing kernels, configuring and maintaining network services, automating system administration tasks.

Expanded Outcomes
Outcome 1 Compare, compile and install kernels (Range: Two of the latest kernels available at the beginning of each semester)
Outcome 2 Compare, compile and/or install kernel modules and device drivers (Range: Two or more of the modules and device drivers available at the beginning of each semester)
Outcome 3: Integrate, manage and query the kernel modules (Range: list provided to class)
Outcome 4: Create intermediate level shell scripts (Range: user and system management scripts)
Outcome 5: Compare different methods of automation and implement the most appropriate (Range: backup and system monitoring)
Outcome 6: Integrate and implement network and related services (Range: ssh, nfs, dhcp, ftp, email, and samba)
Outcome 7: Differentiate between entries in the system log files and use the appropriate ones to troubleshoot and manage the network (Range: system log files)
Outcome 8: Estimate security measures and implement appropriate countermeasures (Range: list provided to class)
Outcome 9: Discuss the tasks of a network systems administrator

Assessment:

Weighting	Nature of assessment	Learning