

CIT 470—Advanced Network and System Administration

Spring 2008
MW 2:00-3:50

Instructor Information

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Summary

Description : Administering networked computer systems. Volume management, filesystems, backups, directory services, network-based authentication and filesystems, automation of installs and file distribution, directory services, e-mail, security, and clustering.

Prerequisites : CIT 370

Textbooks : Thomas A. Limoncelli and Christine Hogan, *The Practice of System and Network Administration, 2nd edition*, Addison-Wesley, 2007.

Student Learning Outcomes

By the end of the term, a successful student should be able to:

1. Carry out common administrative tasks, including backups, installs, user management, and server deployment.
2. Analyze system problems and identify the associated root cause.
3. Explain how distributed Linux computing environments (authentication, directory services, networked filesystems, etc.) work.
4. Combine UNIX command line features and tools, including the ability to use job management, I/O redirection, and pipes, to accomplish common administrative tasks.
5. Use a common administrative language (sh, perl, python, ruby) and tools like at, cron, cfengine, or kickstart to automate administrative tasks.

Grading

Your grade in the course will be earned / calculated as follows:

		A	→	90	–	100
midterm	30%	B	→	80	–	89
final exam	30%	C	→	70	–	79
labs + assignments	40%	D	→	60	–	69
		F	→	0	–	59

Students with Disabilities

Students with disabilities who require accommodations (Academic adjustments, auxiliary aids or services) for this course must register with the Disability Services Office. Please contact the Disability Service Office immediately in the University Center, Suite 320 or call 859-572-6373 for more information. Verification of your disability is required in the Disability Services Office for you to receive reasonable academic accommodations. Visit our website at <http://www.nku.edu/~disability/>.

Academic Dishonesty

The work that you submit in this course is subject to Northern Kentucky University's Student Honor Code (see <http://www.nku.edu/~deanstudents/documents/StudentHonorCode-Fall2007.pdf>.) Issues involving academic dishonesty are taken very seriously by this instructor and are dealt with according to College and Department policy. Academic dishonesty includes but is not limited to:

1. Improper access to evaluation material or records.
2. Submission of material which is not the student's own work.
3. Conduct which interferes with the work or evaluation of other students.

Some specific examples of dishonesty include:

1. Copying from another person, book, magazine, or other electronic or printed media.
2. Obtaining another person's exam answer or answers.
3. Assisting another student in submitting work that is not the student's own.

It is unacceptable to share program code. It is unacceptable to share homework solutions. It is acceptable and often a good idea to talk about program algorithms and homework solution strategies, but it is not acceptable to use the same code or code segments, or to share actual solutions to homework problems. Any act of academic dishonesty will result in a grade of zero (0) for that item for the first occurrence. An automatic F in the course will result for the second offense. This policy holds for homework assignments and programs, as well as for tests. In order to be fair, penalties will be applied to all parties involved regardless of culpability or fault.

Course Calendar and Class Structure

See the course web site, <http://www.nku.edu/~waldenj1/classes/2008/spring/cit470/> for a current course schedule.