



DEPARTMENT OF SCIENCE
COURSE OUTLINE – WINTER 2015

CS2050-NETWORK SYSTEMS, MANAGEMENT AND SECURITY (1-0-3)

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PREREQUISITE(S)/CO-REQUISITE: None

REQUIRED TEXT/RESOURCE MATERIALS

There is NO required text for this course but I will be using the book “Linux Mint 17 : Desktops and Administration” by Richard Peterson.

CALENDAR DESCRIPTION

This course will be of interest to students who want to learn how to implement, manage and troubleshoot network and server environments. Students will learn how to create and maintain network resources and develop network security policies and procedures. Topics will include network architectures and protocols (including wireless), network operating systems, Internet services, networking components (including network adapters, repeaters, hubs, switches, bridges, routers, gateways, firewalls and proxy servers), network virus protection, network backup and restoration, Windows and Linux management security.

CREDIT/CONTACT HOURS : 3 credits (1-0-3) / 60 contact hours

DELIVERY MODE(S) : Classroom/ Lab

TRANSFERABILITY

Athabasca University.

King's University College*

* An asterisk(*) beside a transfer institution indicates important transfer information. Consult the Alberta Transfer Guide.

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A⁺	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A⁻	3.7	80 – 84	FIRST CLASS STANDING
B⁺	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B⁻	2.7	70 – 72	
C⁺	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C⁻	1.7	60 – 62	
D⁺	1.3	55 – 59	MINIMAL PASS
D	1.0	50 – 54	
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

**** Grades of D or D+ may not be acceptable for transfer to other post-secondary institutions. Student are cautioned that it is their responsibility to contact the receiving institution to ensure transferability**

EXAMINATIONS

Assignments (lab and take-home)	40%
Term Exam	25%
Final Exam	35%

****There is a 30% penalty for late (less than 2 days) assignment. Assignments which are more than 2 days late will not be accepted.**

STUDENT RESPONSIBILITIES

Students must make an effort to attend ALL classes. If you have more than 5 un-excused absences you may be barred from writing the final exam

STATEMENT ON PLAGIARISM AND CHEATING:

Refer the College Policy on Student Misconduct: Plagiarism and Cheating at www.gprc.ab.ca/files/forms_documents/Student_Misconduct.pdf

****Note:** all Academic and Administrative policies are available at <https://www.gprc.ab.ca/about/administration/policies/>

COURSE SCHEDULE/TENTATIVE TIMELINE:

- Introduction to Linux/ Mint / basic system management
- installing packages
- FTP servers / clients
- TCP Wrappers /DHCP Servers and clients
- File servers –
 - SAMBA clients and servers
 - NFS clients and servers
- IPTABLES
- Setting up a web server / database server through XAMPP