



DEPARTMENT OF SCIENCE
COURSE OUTLINE – WINTER 2015

CS2000 -DATA COMMUNICATION AND NETWORKING (3-0-0)

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PREREQUISITE(S)/CO-REQUISITE: None

REQUIRED TEXT/RESOURCE MATERIALS

Computer Networking : A Top-Down Approach . 6th edition by James Kurose & Keith Ross

CALENDAR DESCRIPTION

This course provides an introduction to computer communication and computer networks. Topics will include communication hardware and software, protocols, local area networks and network management.

CREDIT/CONTACT HOURS : 3 credits (3-0-0) / 45 contact hours

DELIVERY MODE(S) : Classroom

TRANSFERABILITY

University of Lethbridge

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**

Evaluations

Assignments	30%
First Term exam	20%
Second Term Exam	20%
Final Exam	30%

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

SOME IMPORTANT POINTS TO REMEMBER WHEN COMPLETING ASSIGNMENTS

- I. Your name and assignment number must appear on all assignments that you turn in.
- II. All written assignments must be submitted in PDF format.
- III. All assignments must be submitted electronically through the course web page. The name of the submitted file must conform exactly to the format that I provide. Any deviations WILL NOT be accepted.

If any of these conditions are not met, your assignment WILL NOT be marked.

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:

Computer Networks and the Internet

Application Layer and protocols –
HTTP, FTP, SMTP, DNS

Transport Layer and protocols
UDP, TCP

Network Layer and protocols
IP, ICMP, routing

Link Layer and protocols
Ethernet, ARP

Wireless and Mobile networks