



DEPARTMENT OF SCIENCE
COURSE OUTLINE – WINTER 2015

CS3130- TELECOMMUNICATIONS AND COMPUTERS (3-0-3)

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PREREQUISITE(S)/CO-REQUISITE: CS2010 and CS2000

REQUIRED TEXT/RESOURCE MATERIALS

Foundations of Python Network Programming, third edition. Rhodes, B and Goerzen, J

CALENDAR DESCRIPTION

Introduction to computer communication networks. Digital data and voice transmission. Protocols for error and flow control, media access for LANs and MANs, routing and condition control, interconnection of networks. Introduction to recent advances in networks.

CREDIT/CONTACT HOURS : 3 credits (3-0-3) / 90 contact hours

DELIVERY MODE(S) : Classroom

TRANSFERABILITY

University of Alberta*

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	40%
Major Programming Project	10%
Midterm 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. Any 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:

Introduction to Python
Introduction to Client / Server Programming
UDP/TCP/DNS
TLS /SSL
Server Architecture
HTTP Clients /Server and WWW
Mail – SMTP /POP /IMAP
Telnet / SSH
FTP