



DEPARTMENT OF SCIENCE
COURSE OUTLINE – WINTER 2017

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

90 Hours for 15 Weeks

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OFFICE HOURS:	TBA		

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.

PREREQUISITE(S)/COREQUISITE:

CS2010 and CS2000

REQUIRED TEXT/RESOURCE MATERIALS:

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

DELIVERY MODE(S): classroom

TRANSFERABILITY:

University of Alberta *
University of Lethbridge
Athabasca University
King's University College *
Augustana Faculty, University of Alberta

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

***Warning:** Although we strive to make the transferability information in this document up-to-date and accurate, **the student has the final responsibility for ensuring the transferability of this course to Alberta Colleges and Universities.** Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at Alberta Transfer Guide main page <http://www.transferralberta.ca> or, if you do not want to navigate through few links, at <http://alis.alberta.ca/ps/tsp/ta/tbi/onlineSearch.html?SearchMode=S&step=2>

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

GRADING CRITERIA:

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**.

Alpha Grade	4-point Equivalent	Percentage Guidelines		Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100		C+	2.3	67-69
A	4.0	85-89		C	2.0	63-66
A-	3.7	80-84		C-	1.7	60-62
B+	3.3	77-79		D+	1.3	55-59
B	3.0	73-76		D	1.0	50-54
B-	2.7	70-72		F	0.0	00-49

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

STUDENT RESPONSIBILITIES:

Students must try 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:

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Calendar at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <https://www.gprc.ab.ca/about/administration/policies>

****Note:** all Academic and Administrative policies are available on the same page.

Additional Information:

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.