

DEPARTMENT OF SCIENCE

COURSE OUTLINE – WINTER 2020

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

90 Hours for 15 Weeks

INSTRUCTOR: Franco Carlacci **PHONE:** 780 539 2091

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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.transferalberta.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%

PLEASE READ THE FOLLOWING AND MAKE SURE YOU UNDERSTAND THAT:

There is a 30% penalty for late (less than 4 days) assignment. Assignments that are more than 4 days late will not be accepted. **I will be enforcing this rule with no exception.**

All work must be submitted via Moodle; no emailed assignments will be accepted.

Once an assignment has been marked and a grade assigned, I will not be entertaining any request to remark it unless a mistake has been made by me.

Exams will be written as scheduled. No rewrites will be given. If there is an excusable absence, the weighting of the missed exam will be added to the final exam weighting. If the absence is not excusable, a grade of 0% will be given. Absences due to a medical emergency must be supported by a physician's letter.

NOTE: YOU MUST GET A PASSING GRADE ON THE TESTING COMPONENT (IE. QUIZZES, MIDTERM, FINAL) OF THE COURSE FOR YOUR ASSIGNMENT MARKS TO COUNT TOWARDS YOUR FINAL GRADE.

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	С	2.0	63-66
A-	3.7	80-84	C-	1.7	60-62
B+	3.3	77-79	D+	1.3	55-59
В	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.