

DEPARTMENT OF SCIENCE

COURSE OUTLINE – WINTER 2021

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

90 Hours for 15 Weeks

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

OFFICE: C422 E-MAIL: fcarlacci@gprc.ab.ca

OFFICE HOURS: N/A

WINTER 2021 DELIVERY:

Mixed Delivery – Remote and Onsite. This course is delivered remotely with some face-to-face/onsite components at the GPRC Grande Prairie campus.

- For the remote delivery components: students must have a computer with a webcam and reliable internet connection. Technological support is available through helpdesk@gprc.ab.ca.
- For the onsite components: students must supply their own mask [and/or face shield] and follow GPRC Campus Access Guidelines and Expectations.

Note: GPRC reserves the right to change the course deliver

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

TRANSFERABILITY:

Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at the Alberta Transfer Guide main page http://www.transferalberta.ca.

** 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:

- 1. All assignments must be submitted on or before their due date. Late Assignments will not be accepted. I will be enforcing this rule with no exception.
- 2. All work must be submitted via myClass; no emailed assignments will be accepted.
- 3. Once an assignment has been marked and a grade assigned, I will not be entertaining any request to re-mark it unless a mistake has been made by me.
- 4. 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	4-point	Percentage	Alpha	4-point	Percentage
Grade	Equivalent	Guidelines	Grade	Equivalent	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. Also, students should be checking both their email account and the course webpage on a regular basis for announcements and updates.

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.