

Computer Science 2006

Computer Networking Fall 2024



Department of Computer Science

Instructor: Mark Hatcher

Office Hours: Tuesdays 12pm & Fridays 1pm, EN2032

e-mail: mhatcher@mun.ca

- include COMP2006 in the subject line
- note that I do **not** check email in Brightspace
- don't expect replies outside working hours (Monday to Friday 9am to 4:30pm)

Lectures: Mondays 12-12:50pm, CS035

Course Prerequisites: COMP 2001, COMP 2002

Course Co-requisites: COMP 2004, COMP2007, COMP2008

Course Content:

We will study the the technical design and architecture of the internet, by focussing on the most commonly used protocols.

Topics include:

Protocol Stack Layering, Essential Application Layer Protocols, Programming with Socket, Transport Layer, Reliable Data Transfer, TCP/IP, UDP, Network Layer, Switching, Routing, Link and Access Technologies.

Evaluation Scheme:

Type	%	Approximate Due Dates (these may change)
Assignment (3)	35	October 11th (10%), Novemeber 4th (10%), November 25th (15%)
Midterm Class Exam	25	October 21st
Final Exam	40	not yet known

You must also obtain an average score of 50% between your midterm and final exams to pass this course.

Texts:

- Course Text: Introduction to Networking: How the Internet Works (Charles R. Severance, open book)
- Also worth reading: Computer Networking: A Top-Down Approach (Kurose & Ross, 8th Edition)

Classes and exams will be delivered on-campus. Class slides and other course materials will be made available in Brightspace on a weekly basis. In the event that on-campus activities are suspended, classes and assessments will be delivered online, as seamless as possible.

Course Schedule (tentative):

Week Beginning	Topics	Readings
September 2nd	None (no class this week)	'Welcome' in Course Shell
September 9th	Prologue Introduction	Class Slides #0, #1 Dr Chuck Chapter 1
September 16th	Network Architecture	Class Slides #2 Dr Chuck Chapter 2
September 23rd	Link Layer	Class Slides #3 Dr Chuck Chapter 3
September 30th	Error Detection and Correction (on Wednesday October 2nd)	Class Slides #4 Dr Chuck Chapter 3
October 7th	Network Layer	Class Slides #5 Dr Chuck Chapter 4
October 14th	None (Thanksgiving = no class this week)	
October 21st	Class Exam October 21st	Class Slides #5 Dr Chuck Chapter 4
October 28th	Routing	Class Slides #6 Dr Chuck Chapter 4
November 4th	Transport	Class Slides #7 Dr Chuck Chapter 6
November 11th	Sockets (on Friday November 15th)	Class Slides #8 Kurose & Ross Section 2.7
November 18th	DNS	Class Slides #9 Dr Chuck Chapter 5
November 25th	Application Layer	Class Slides #10 Dr Chuck Chapter 7

SAMPLE ONLY
Expect changes!

Assessment Schedule (tentative):

Item	Due Date
Assignment 1	FRIDAY Oct 11th
Class Exam	Oct 21st
Assignment 2	Nov 4th
Assignment 3	Nov 25th
Final Exam	not yet known

Important Notes:

1. Memorial University of Newfoundland is committed to supporting inclusive education based on the principles of equity, accessibility and collaboration. Accommodations are provided within the scope of the University Policies for the Accommodations for Students with Disabilities (www.mun.ca/policy/site/policy.php?id=239). Students who may need an academic accommodation are asked to initiate the request with the Glenn Roy Blundon Centre at the earliest opportunity (www.mun.ca/blundon).
2. In the event of university closure on the day of an exam, the exam will be given in the next scheduled class.
3. Assignments will require programming in Java.
4. Assignments are due at **11:59 p.m.** on the specified date, in the specified manner. No late assignments will be accepted. **It is your responsibility to make sure that the correct files are actually uploaded or present, so check for the confirmation that your files have been uploaded.** Be aware that the files you submit for evaluation should be uploaded on or before the due date and as much before the cut off time. Even if you are late by a few seconds you will not be allowed to submit your work; hence you should try to upload the files at least 15 minutes before the cut off time since your system clock is not synchronized with the CITL's system clock and the cutoff time is based on CITL's system clock. Please note that if your files have been correctly uploaded, you will get a confirmation receipt from the Dropbox tool. If you do not receive this receipt, please contact the CITL Support team (<https://www.citl.mun.ca/support/>).
5. Note that, while the due times are at 11:59pm Newfoundland Time, help will not be available after 4:30pm on the due date, or on weekends. The last few hours from 4:30pm to 11:59pm should be used to finalize your work and submit it. Any questions you may have about the assignment should be asked well in advance of the due date/time to allow time for help to be given.
6. If for special circumstances (such as medical or bereavement) you are going to miss an assignment or exam then you must notify your instructor **as soon as possible**. Unless there is good justification this should happen before the assignment deadline, or before the start of the exam, and in any event no later than 48 hours after the deadline/exam start. You must subsequently provide any related documentation (if required). Failure to do this can result in a mark of 0% for that work. For more information, please see the University Calendar - University Regulations - General Academic Regulations (Undergraduate) 6.7.5 (**Exemptions from Parts of the Evaluation**) and 6.15 (**Appeal of Decisions**) or consult the Registrar's Office. If the reasons for missed work are acceptable to your instructor will provide details of any alternate evaluation scheme.
7. **This course does not have an option for writing deferred class exams. If, for any reason, you are going to miss the class exam, you should contact your instructor right away, before the exam begins, giving the reasons for missing the exam, and requesting that the weight of the missed exam be added to the weight of the final exam. If you first contact the instructor after the missed exam, you will have to provide documentation that proves why it was not possible to make contact beforehand. Any change will be subject to approval.**
8. Requests for any deferred **Final** exam should be made by filling in the Request for Deferred Exam form, along with any required documentary proof. See here for what is required and where to submit your form: https://www.mun.ca/computerscience/ugrad/UGAdvising/registration_issues.php#deferring
9. Assignments and exams must be original and independent work. **The use of AI and other assistive technology such as Grammarly is forbidden.** Copying someone else's work or allowing your work to be copied is a serious breach of university regulations and ethics. Any and all copied material will receive the mark of 0%. **If your assignments are quite similar then it can be construed as copying.** (Even if you have done your own work but have consulted a friend as you are doing the assignment then the assignment will turn out to be quite similar.) Please see the University Calendar - General Academic Regulations (Undergraduate) - 6.12 (**Academic Misconduct**).

10. The final grade assigned for his course will be numerical. See: <https://www.mun.ca/regoff/calendar/sectionNo=REGS-0661>