

Instructor: Sam Toueg

Contact information:

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Course web page: <http://www.cs.toronto.edu/~samvas/teaching/2221>

Marking: Your mark will be based on homework assignments. For help with your homework you may consult only the instructors, TA, and your class notes. You may not consult any other source, including the web or other students. The work that you submit must be entirely your own.

Textbook: There is no required textbook for the course. Some lecture notes will be distributed in class. Other resources will include your own lecture notes, and published research papers.

Content: In this course we study fundamental problems in distributed computing, with a special emphasis on synchronisation and fault-tolerance. Examples of such problems are mutual exclusion, reliable communication and distributed agreement in spite of failures. We study these problems in message-passing and shared-memory models, under different assumptions on the degree of synchrony and types of failures that can occur. We will describe algorithms, lower bounds on various complexity measures (such as time and number of messages) and impossibility results.