A. **CONTACTS:** Evangelos Kranakis [Office hrs](http://people.scs.carleton.ca/~kranakis/)
   Teaching Assistants:
   Yi [Erica] Wang (ericawang@cmail.carleton.ca) [Office Hrs TBA]
   Ahmad Traboulsi (AhmadTraboulsi@cmail.carleton.ca) [Office Hrs TBA]
   TA Office Hours: (Held in HP 1170)

B. **IMPORTANT:** [Carleton University Equity Statement](http://people.scs.carleton.ca/~kranakis/)

   *Explanations for Lectures: NC = Not Covered, (*-*\*) = page range covered in class*

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Wk 08  Nov 02  Trees in DC (1)  Assignment C  Posted: Nov 05  WP6  Posted: Nov 09

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Wk 10  Nov 16  Random RV (1-7)

Wk 11  Nov 23  Sorting (1-37)
Wk 12 Nov 30  |  **Tournaments**  |  **Batcher**

Assignment C  
Due: Dec 08  
Project Due: Dec 14

Wk 13 Dec 07  |  **TEST 2 (in class)**  |  **What-to-Study**

C. **NOTE:**
Student or professor materials created for this course (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the author(s). They are intended for personal use and may not be reproduced or redistributed without prior written consent of the author(s).

D. **CONTENTS OF LECTURES:** Some of the course may be based on recent papers published only in journals and/or conference proceedings. You can download lecture notes in pdf format. Links are activated only when the lectures are ready, which is usually before, but close to the time of the lecture.

E. **BRIEF COURSE DESCRIPTION:**
Overview of distributed computing. Topics include: computational models, communication complexity, design and analysis of distributed algorithms and protocols, fault-tolerant protocols, synchronous computations. Applications may include: communication in data networks, control in distributed system (e.g., election, distributed mutual exclusion), manipulation of distributed data (e.g., ranking).
F. PREREQUISITES
COMP 1805, 2401 and 2406

G. WHAT TO STUDY FOR THE TESTS:
1. Read everything covered in class. Make sure you understand concepts and methodologies in a technical manner.

H. STUDENTS' REQUIREMENTS SCHEDULE
1. Homework assignments.
Three assignments that will contribute 15% of the final grade (5% each).
All assignments are compulsory and must be handed in on the due date no later than 3 pm in the file cabinet located in room 3115 HP (either staple or put your assignment in an envelope that has your name and student ID and place it in the box that has my name and course number COMP 4001). Late assignment policy: 20% off penalty per day.

2. Active Class Participation.
This will contribute 5% of the final grade.
1. Active class participation means: participating during the lecture by making improvements, presenting a short program, presenting a short proof of something presented in the lecture, elaborating on something new you discovered, or solving the weekly problem and presenting it in class.
2. The weekly problem is only for class discussion and is not to hand in.

3. Project
This will contribute 20% of the final grade.
1. Students can work in groups of at most two.
2. The project should follow (guidelines for project/paper abstract preparation).
3. Students must make an in-class presentation (during last week of class).

4. In-class exams.
1. Two 50 min Tests. Each test will contribute 30% to the final grade and you will be examined on the material covered.

I. USEFUL TEXTBOOKS: (Not Required)