TIMETABLE: 40621 MWF 11:00am–11:50am in Lincoln Hall 206.

PREREQUISITES: The graduate catalog lists “Grade of B or better in MCS 360 or the equivalent or consent of instructor.” Examples of courses which could serve as “the equivalent” are MCS 320 (introduction to symbolic computation) and MCS 471 (numerical analysis).

COMPUTATIONAL SCIENCE: MCS 507 fits in an interdisciplinary computational science and engineering (CSE) curriculum. MCS 507 prepares for MCS 572 (Supercomputing).

INSTRUCTOR: Jan Verschelde, Office: 1210 SEO. E-mail: janv@uic.edu. URL: http://www.math.uic.edu/~jan.

OFFICE HOURS: At noon on Monday, Wednesday, and Friday, in office or by appointment; via zoom https://uic.zoom.us/my/profjanofficehour.


HOMEWORK: At every lecture, several exercises are listed. Some exercises provide inspiration for an interesting project. The collection of homework will be announced at least one week before the deadline.

PROJECTS: Three projects will be assigned during the semester. To experiment with the concepts and algorithms, we use open source software. Topics of the first two projects will be prescribed. The topic of the third project will depend on your own research interests and could be developed into a final project (instead of a final exam).

EXAMS: During the semester, there is one midterm on the first half of the course. As a take-home exam, the midterm functions as an important homework collection. Instead of a classical review week and a final exam, the last week of classes could be spent on project presentations, so the final grade is determined mainly by computer projects.

STUDENTS WITH DISABILITIES: UIC is committed to full inclusion and participation of people with disabilities in all aspects of university life. Students who face or anticipate disability-related barriers while at UIC should connect with the Disability Resource Center (DRC) at drc.uic.edu, drc@uic.edu, or at (312) 413-2183 to create a plan for reasonable accommodations. In order to receive accommodations, students must disclose disability to the DRC, complete an interactive registration process with the DRC, and provide their course instructor with a Letter of Accommodation (LOA). Course instructors in receipt of an LOA will work with the student and the DRC to implement approved accommodations.

SOME IMPORTANT DATES: Friday 1 September : last day to register, last day to withdraw without W grade. Monday 4 September : Labor Day Holiday. No classes. Thursday 23 – Friday 24 November : Thanksgiving holiday. No classes. Monday 4 – Friday 8 December, final exam, date, time, and room to be announced.