

Guidelines for the Mid-Term Exam

The mid-term exam will be held on Friday, November 3rd, in MEB 103 from 12:30 pm to 2:20 pm. The sections of the text and corresponding topics for the exam will include:

- fluid acceleration, conservation of mass, momentum balance (§1.6, Chapter 5, Appendix A.12, and Appendix A.13).
- viscous internal flows (§8.1 to 8.5)
- incompressible and irrotational flows; velocity potential, stream function, Bernoulli's equation; vortex pair; flow past a cylinder (Chapter 6 and Appendix A.14).
- conservation of energy, initial conditions, boundary conditions (§3.7, §3.8; handout "Notes on the energy equation").

The exam will stress what was assigned in the text, and what was covered in class and in the homework. In addition to pencil and paper, for the exam students are only allowed to use the course textbook by Smits, the course class notes, and the course homework. No use of electronic devices other than reference to Smits' text is allowed (turn off your Wi-Fi during the exam).