

**57:020 Mechanics of Fluids and Transport Processes  
Instructions and Grading for CFD Lab Report**

Section	Points
<b>PreLab Questions</b> Submitted before PreLab	10
1 <b>Title Page</b> 1.1 Course Name 1.2 Title of report 1.3 Submitted to "Instructor's name" 1.4 Your name (with University ID and email address) 1.5 Your affiliation (Department, Group) 1.6 Date	5
2 <b>Test and Simulation Design</b> Purpose of CFD simulation	10
3 <b>CFD Process</b> Describe in your own words how you implemented CFD process (Hint: CFD process block diagram)	10
4 <b>Data Analysis and Discussion</b> Answer questions given in <b>Exercise Notes</b> of the CFD lab handouts	50
5 <b>Conclusions</b> Conclusions regarding achieving purpose of the simulation Describe what you learned from CFD Lab. Comments on the "hands-on" experience, software interface, and lab performance Suggestions and improvements	15
<b>Total</b>	<b>100</b>

**Additional Instructions:**

1. Each student is required to hand in individual lab report and PreLab questions.
2. Conventions for graphical presentation:
  - \* CFD figures should be plotted using symbols without X and Y grid
  - \* All figures in the report should be either the hardcopies of FlowLab or the plots using other commercial software (Excel).
  - \* Color print of figures recommended but not required
3. Reports will not be graded unless section 1 is included and complete
4. CFD Lab report template is provided to facilitate you to write reports.

## CFD Process Block Diagram

