

Homework Assignment Requirements

Homework assignments have the following requirements:

1. Homework must be clear and legible. Online submission must be done as a **single PDF file.**
The following information must appear on the first page:

- **Name and Date**
- **Course number**
- **Homework number**

If you are scanning an original hardcopy, be sure to preview before submitting and check the file to make sure it is clear, legible, and with all pages included and in the correct order. It is recommended that the hardcopies are prepared on single-sided, clean, new paper.

Illegible homework will not be graded.

2. The following is the **standard format** for organizing and presenting the solution to a fluid mechanics problem. Use this (or similar clear, organized, logical procedure) in your homework.

- (a) **Problem Description** - include the following:

- Given information and basic description.
- Schematic of problem/geometry. Clearly indicate system/control volume considered, coordinate system, any other relevant information.
- What is to be determined.

- (b) **List of Assumptions** - list all appropriate simplifying assumptions.

- (c) **Basic Equations** - general form of relevant fundamental laws, equations, definitions.

- (d) **Analysis**

- clearly describe procedure to apply/manipulate/reduce equations to give solution.
- reference all tables and charts needed for physical properties and other data.
- substitute numerical values into final equations. be sure to specify all units and unit conversions.
- keep significant figures consistent with given data.
- check solution - correct sign, reasonable numerical values?
- clearly indicate final answer(s) with underline or box.

- (e) **Discussion of Solution** - as needed (what you learned, key aspects of solution, etc).

3. Grades will be determined by student's:

- Understanding of the problem.
- Identification of necessary procedure to obtain solution.
- Clear and precise description of solution.
- Correct numerical answers.