Homework Assignment Requirements

Homework assignments have the following requirements. **Any homework not following these requirements will be returned ungraded**.

1. All homework must be done **neatly** on $8\frac{1}{2} \times 11$ paper (single-sided on clean, new paper, stapled together, no frayed edges) with each problem and final solution **clearly indicated**. The following information must appear on the first page:

   - Name and Date
   - Course number
   - Homework number

   Illegible homework will be returned ungraded.

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 - fundamental laws, equations, definitions to be used.

   (d) Analysis
   - clearly describe procedure to 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.