Note: Different homework (HW) assignments are worth different total amounts of weights. See the Evaluation link on the course web page for details.

The rubrics below are expressed as percentages of the weight for any one exercise

Rubric – Homeworks involving computer programming	Excellent	Good	Poor
Correct Answer (up to 80% of overall grade)	(80%) All answers are numerically correct, with units specified, graphs correctly drawn, and discussion added where appropriate.	(10 – 70%) Some answers are correct. Score depends on portion of answers that are correct, and the difficulty of each question.	(0 %) No answers are correct, or no HW was submitted.
Documentation (up to 10%) of overall grade	(10%) Very thorough documentation within the code, with major comments for each section of code, and in-line comments almost everywhere, giving info on the processes, variables, units, etc. Namely, similar or better than the documentation in Stull's code fragments on the course webpage.	(1 to 9%) Partially documented within the code. Score depends on the portion of code that is documented, and on the ability of the professor or TA to thoroughly understand the code even without knowledge of the syntax of your programming language.	(0 %) No documentation, or no HW submitted.
Clarity (up to 10%) of overall grade. See Homework Tips below	(10%) Output provided to the instructor is neat, clear, and well organized. Figures are numbered or otherwise closely tied to the code. Output is a pdf file showing the code and the associated figures, graphs, tables, numerical answers, and discussion where appropriate. Hint, for Jupyter notebooks, provide a pdf file of the notebook pages with code and figures.	(0 – 9%) Score depends on how clear and neat the output is. The more work the professor needs to do to understand the output, or to create a clearer pdf, the lower the score.	(0 %) Not clear at all, or not HW submitted.

Homework Tips:

1. Convert all of your outputs (copy of the code, graphs, any written discussion that might be required) into a SINGLE (multipage) pdf file.

2. Be sure your name is near the top of the first page, along with a title for that homework assignment (e.g., HW1 - Gaussian plume).

3. If you use Jupyter notebooks, don't send me the .ipynb file. Instead, print the notebook into a pdf file to submit. If all you have is the .ipynb file, then use https://ubc.syzygy.ca/ to create the pdf.

4. Clearly label each exercise. Example: exercise 2b.   Also, label each figure, so I know which exercise it goes with.

5. If there is a final numerical answer, highlight it in some way, so I know that it is the answer.

6. Make the figures or graphs reasonably large. (don't try to squeeze them all onto one page)

7. For contour plots, I prefer plotted contour lines with labels, not colour fills. (The colour fills look pretty, but use to much ink to print.) Be sure to label the axes, with units, etc.

8. Be sure to check that your answer makes sense physically before you submit it. Also, If something about the answer is revealing about the physics, or is surprising to you, then discuss it (briefly).

9. Make the finished product neat and attractive enough that you could show it to potential employers when you apply for a job.