A few notes on doing assignments.

There is no need to regurgitate the notes. Really.

On the other hand, some words describing the mathematical steps are very helpful. For example: "multiplying free-air correction by height:" followed by the math. That way if you make a mistake in the math then I know that you understood the concept.

And please, please, describe every variable, especially those that you are introducing as new. If an "s" suddenly appears I might guess what it represents, or then I might not.

You have to be intelligent about precision. A few things require a LOT of precision, such as using the entire international gravity formula to compute latitude effects. Other things do not - if you are using the differential form of the IGF then you only need to carry as much precision as a gravimeter can measure.

Keep track of units. Meters are not the same as kilometers. I guarantee someone will make that mistake at some point in the quarter. By the same logic, all answers should have units, so I know if your answer is 10 km or 10 m. (The exception is dimensionless quantities, which we tend not to use in SIO182 but are common in SIO103.)

I will help you learn MATLAB, but I can't accept a program as a homework solution. By all means include the program if you want to, but I would like to see the results written up in a way that I can understand (reading my own code is bad enough if I haven't touched it for a couple of months - reading other people's code is a real challenge).