

STA2006 (Stochastic Processes), Winter 2017

Writing Assignment

Due: In class by 6:10 p.m. **sharp** on Thursday March 23. **Warning:** Late assignments, even by one minute, will be penalised (as discussed on the course web page).

Include at the top of the first page: Your name and student number.

Note: This assignment is **only** for students enrolled in STA2006 (i.e., graduate students), **not** for students enrolled in STA447. If you are in STA447 then do **not** do this assignment!

Note: You are welcome to discuss this assignment in general terms with your classmates, and to look up ideas in books or on the internet. However, you should write your actual assignment entirely on your own. Directly copying other students or books or web pages or other material is strictly prohibited!

THE ASSIGNMENT:

Select some theorem or result from class that you find particularly interesting or surprising or useful or elegant (i.e., “your favourite theorem”).

Write a short essay (2–3 pages typed double-spaced) which explains your chosen theorem or result, discusses why you find it interesting etc., and applies it in an interesting way to a simple example of your choosing.

Try to be creative in your choice of application / example, i.e. do not just repeat an example from class or a textbook.

Be sure to write well and clearly, in complete English sentences. Remember that you are writing an actual essay, not just a technical solution to a homework problem. If possible, try to explain the ideas in a way that would make sense even to someone who has not taken this class (though you should still assume that they already know about basic probability theory etc.).

Final Note: If you would like assistance with writing well in English (both for this assignment, and for your future studies and employment too!), then you are encouraged to consider the many resources offered by SGS to graduate students, as described at:

<https://www.sgs.utoronto.ca/currentstudents/Pages/English-Language-and-Writing-Support.aspx>