Navigation 🗉	This project will give you an opportunity to explore applications of stochastic processes in a
	field of interest to you (possibly your major), while gaining some practice in reading the
Home	
My home	Find an article in a peer-reviewed journal in your area of interest which uses a stochastic
Site pages	process as a model for some "real-life" behavior. Write a review giving a summary and critiqu
My profile	of the approach used in the article. Please address the following questions:
My courses	
Math 4740	• What real-life behavior are the authors trying to study? Why is it important? (Please
Participants	remember that I am not an expert in your field. You don't have to write a survey article
Reports	o Describe the methometical model that the authors proposed in terms that a classmate
News	could understand. This may require further research on your part
Midterm course	• If the model is similar to something we have studied in class, discuss how some of the
evaluation	things we know about it might be relevant. (For instance, if the article is using a Markov
Syllabus	chain to model wombat population, perhaps the recurrence of the chain predicts mass
Course discussion	wombat extinction.)
forum	• What are some aspects of the real-life behavior that the model does a <i>good</i> job of
Homework	describing?
assignments	\circ What are some aspects that the model doesn't describe well? In what ways is the model
Supplementary	unrealistic? How could the model be improved to remedy this?
notes	• Are there other models commonly used to describe this behavior? (The article may give
Project info	useful references.) Why have the authors chosen this one instead?
Project Info	• Do the authors compare the predictions of their model (from theory or from simulations)
Brownian motion	with data from real-life observations or experiments? If so, what did they find?
applets	Here are some guidelines on writing and submitting your review:
Last year's exams	
Textbook errata	• Please type it. LaTeX or LyX is highly encouraged (and also an essential skill for any
Final Exam	professional mathematician, so why not learn now?). Microsoft Word is discouraged,
Topic 11	because it tends to produce crappily formatted math that is hard for me to read, but I
Topic 12	This is an individual project. You are welcome to discuss the project with elessmates
Topic 13	friends professors or others but the work you submit must be your own. If someone
Topic 14	provides useful comments, it would be courteous to thank them in the paper.
	• Your writing must be clear, correct, and well-organized. Write as if your work were going
	to be published in a professional journal. Be sure to reread and revise as needed.
Topic 16	• When you include equations or math symbols, please do your best to ensure that they
Topic 17	are well-formatted and legible. Variables should be in italics. If you use LaTeX or LyX,
Topic 18	math mode will take care of all this quite nicely.
Topic 19	• There is no particular upper or lower bound on the length of your review. Use whatever
Topic 20	amount of space you need to address the points you want to make. There is no need to
Topic 21	play games with margins or font sizes to inflate/deflate your page count; just format it
Topic 22	legibly.
Topic 23	• Give full citations of all sources, including the article you are reviewing. (This means at
Topic 24	quotes must be indicated as such, and the source named specifically. You may use any citation style common in your field.
Settings 🗆 🗆	• If the article you are reviewing is available online (and Cornell has access), include a

- East settings	comments within one week. The final version is due by 4:00 PM, Friday, May 11.
Locally assigned	• Email submissions are encouraged. Please use PDF format only and send to
roles	neldredge@math.cornell.edu.
Permissions	• The project is worth 7% of your final grade, broken down as follows:
Check permissions	
Filters	• 20%: Submission of a substantially complete first draft.
Logs	• 25%: Showing a reasonable understanding of the article.
Backup	• 25%: Addressing the questions listed above.
□ Restore	• 30%: Clear, well-organized, professional, and mechanically correct writing.
Course administration	• Late submissions (of either draft) will lose value exponentially at a rate of 1% per hour.
Switch role to	(Exercise: Compute the half-life.)
	• If you have a great idea for something to look at which doesn't quite fit the guidelines of
My profile settings	this project, that's fantastic! Let me know and we can discuss it.
	Feel free to come see me with any questions that may arise at any stage of this project!
	Last modified: Saturday, 21 January 2012, 07:25 PM
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