Mathematical Models, Math 347

Tuesday, Thursday 2:40-4:00pm, Hayes Hall 311
www2.kenyon.edu/Depts/Math/Smith

"All models are false, but some are useful." – George E. P. Box

Professor Smith
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Hayes Hall 309-A
740-427-5428

Textbook
A First Course in Mathematical Modeling, 4th Ed., by Giordano, Fox, Horton, and Weir

Prerequisites
Math 106 (Statistics) and 224 (Linear Algebra) or 258 (Mathematical Biology). Please see me to discuss your situation if you have not met these requirements.

Office Hours
I will be available for questions in office hours and by appointment. You are encouraged to take advantage of office hours even if you are not struggling with current material so that you can learn from the questions of others or explore the material on a deeper level.

Monday	2:10 - 3:00pm
Tuesday	12:10 - 1:00pm
Wednesday	11:10am - 12:00pm
Thursday	9:10 - 11:00am

Grades
Grades for this course will be assigned based on the following components.

Quizzes	10%
Homework	15%
Journal Assignments and Class Participation	10%
Chapter Project:	
Preparation: Proposal and Partner Response	10%
Presentation: Use of Class Time, Homework Set, Solutions	20%
Zombie Project:	
Literature Review and Proposal	10%
Implemenation/Progress	15%
Final Write-up and Presentation	10%

Software
We will be using the computer algebra systems *Maple* and/or *MatLab* in this course. Contact Terry Klopcic, the director of laboratories for math and physics, for an installation cd for *Maple* at Hayes 101, x5364, or klopcict@kenyon.edu.

Expectations
Class will start on time (usually for puzzles). Please do not bring food to class. Since we are in a room with computers at every desk, you may check email, etc., before class. However, once lecture or discussion begins, I expect you to be logged out until the conclusion of class. When you do use a computer (before, after or during class), you are expected to use it in a way that is consistent with appropriate use as described in the Appropriate Use of Information Services section of the Library and Computing Policies document (http://www.kenyon.edu/x11746#x13588).

Homework

- The problems in this course are real-world problems, and therefore it is often the case that there are multiple good answers. You are encouraged to try multiple approaches and choose the one that works best.
- Solutions should be clearly written and should use complete sentences and correct grammar. Part of a successful and complete assignment is communicating your work to your reader. All figures and calculations should be explained.
- Homework assignments and projects must be turned in at the beginning of class on the due date. Absolutely no late work will be accepted. Exceptions may be made for special circumstances and/or excused absences, but you are required to give appropriate notice. In general, if you know that you will be missing class for some reason, you should turn in your assignment before you leave.

Course Materials
Video and audio recordings of classes are not permitted. Course materials are not to be posted on any shared networks or internet sites.

Communication
The best way to communicate with me is through in-person conversations in office hours or by email. I will respond to emails within 48 hours.

Academic Honesty
Please show respect to your classmates and to me by consistently doing your own work. You are encouraged to work together on homework, but you are expected to write-up each assignment on your own. Make sure to cite sources appropriately in your work. The course policy on academic honesty is the same as that of Kenyon College (http://www.kenyon.edu/x11747.xml).

Disabilities
If you have a disability (learning or otherwise) that may affect your ability to succeed in the course, please let me know as soon as possible so that we can make arrangements. You will also need to contact Erin Salva in the Office of Disability Services.