

Math 371, Q1  
**Mathematical Modelling in the  
 Life Sciences**



*A Course in Mathematical Biology: Quantitative Modeling with Mathematical and Computational Methods*, G. de Vries, T. Hillen, M. Lewis, J. Muller, B. Schonfisch

**Syllabus** (approximate):

Jan 6	1, 2.1	Feb 26	3.7
8	2.2	March 3	4
13	2.2	5	4.3
15	2.2	10	4.3
20	2.3	12	5
22	2.3	17	5.3, 5.4
27	3,	19	5.5, 5.6
29	3.1, 3.2	24	5.7
Feb 3	3.3	26	7.1, 7.2
5	3.4	31	7.3
10	TBA	April 2	MT2
12	MT1	7	TBA
17	Reading week	9	TBA
19	Reading week		
24	3.6		

**Assignments:**

Number	due date	Exercises	Matlab exercises
1	<b>Jan 20</b>	ODE's, linear algebra, 1.4.1, 1.4.3	8.1.1, 8.1.3
2	<b>27</b>	2.4.1, 2.4.2, 2.4.5, 2.4.10	8.2.1, 8.2.2, 8.2.3
3	<b>Feb 3</b>	2.4.13, 2.4.14, 2.4.15, 2.4.16	8.2.4-7
4	<b>Feb 10</b>	3.9.1, 3.9.4, 3.9.6, 3.9.7	8.2.8, 8.3.1-7
5	<b>Mar 3</b>	3.9.8, 3.9.13, 3.9.14, 3.9.15, 3.9.16	8.4.1, 8.4.2
6	<b>Mar 10</b>	4.5.1, 4.5.2, 4.5.3, 4.5.5	8.4.3
7	<b>17</b>	4.5.8, 5.8.1, 5.8.2, 5.8.4	8.5.2-3
8	<b>24</b>	5.8.3, 5.8.5, 5.8.6, 5.8.9	8.6.1
9	<b>Mar 31</b>	7.7.1, 7.7.3, AIC question	AIC question