

Here is another reference if you would like to study from a book different than the one we have been using this semester. It goes into more depth and covers material at a higher level than the book we have been using, but doesn't cover most of the linear algebra we have been learning.

The reference is "Elementary Differential Equations and Boundary Value Problems", by Boyce and DiPrima. The sections listed here are from the Eighth Edition, although I am sure most editions cover similar material. There are two copies of the Eighth Edition on reserve at the Math Library, their call number is BOYCE ELEMENTARY.

- Chapter 1 Section 1.1 only direction fields
Section 1.3 goes over the classification of DEs, which you should know by now but can look at.
- Chapter 2 Sections 2.1 and 2.2
Section 2.3 presents an example of chemicals in a pond, which we have covered this semester.
Sections 2.4, 2.5, 2.6, 2.7
- Chapter 3 all of it
- Chapter 4 all of it
- Chapter 5 Section 5.5, only in the case where $x > 0$ (there is a discussion of $x < 0$ which you are not responsible for).
- Chapter 7 This covers what we will study from now on, so I do not know exactly what we will get through. I'll keep you posted.
- Chapter 8 Sections 8.1 and 8.2

Please note that this doesn't cover everything we have done (for example, I don't think that this covers stability of critical points in autonomous equation).