Introduction to Population Biology.
Roberto Kraenkel.
Institute for Theoretical Physics, UNESP, São Paulo, Brazil

This is a course on basic population biology, with applications to ecology and epidemiology. You will find the previous year lectures on http://www.ictp-saifr.org/mathbio2

1. Single Species,
2. Predation,
3. Competition;
4. Epidemiology;
5. Spatial Ecology,
6. Alternative States,

**Suggested Readings**

*If you have a background in physics or mathematics:*

J. Murray : Mathematical Biology I ( Springer, 2002), chapters 1, 3 10 and 11.

N. F. Britton, Essential Mathematical Biology (Springer,2003).

*If you have a background in biology*

N. J. Gotelli, A Primer of Ecology (Sinauer, 2001, third edition), chapters 1, 2, 5 and 6

*If you think that you need to revise your knowledge on calculus, you may want to take a look at*

S. P. Otto and T. Day, A Biologist's Guide to Mathematical Modeling in Ecology and Evolution (Princeton U. Press, 2007).