

**LS 102 MATHEMATICS FOR BIOLOGISTS [2 credits]**  
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<b>S No</b>	<b>Topic</b>	<b>Number of classes</b>
1.	Real Number System	2
2.	Elements of Coordinate Geometry and Algebra	7
3.	Relations, Functions, including Periodic Functions, Inverse Functions, Growth Rates and Topics from Differential Calculations such as max/min of functions of one variable differentials and approximations	7
4.	Partial derivatives, max/min of function of more than one variable and method of least squares	7
5.	AntiDerivatives, Indefinite integrals and definite integration	7
6.	Logarithms and Exponential Functions	3
7.	Differential Equations and differences equations models in biology and ecology	7
8.	Elements of Probability	5

**Suggested reading:**

1. Introduction to Mathematics for Life Scientists by E. Batschelet (Springer)
2. Advanced Engineering Mathematics by Erwin Kreyszig (Laurie Rosatone)