**Course: Advanced Bioinformatics**

**Module title: Related concepts**

**Module no. : 3**

Here we enlist some of the related concepts to bioinformatics. Roughly we can say that these subjects are mostly combination of biology with some other related filed such as chemistry, math’s and stats.

**Computational biology**

- Application of computing to biology (broad definition)

- Often used interchangeably with Bioinformatics

**Biometry**: The statistical analysis of biological data. Combination of biology with the area of statistics.

**Biophysics**: An interdisciplinary field which applies techniques from the physical sciences to understanding biological structure and function

Combination of biology with the field of physics and physical sciences.

**Mathematical biology:** It tackles biological problems, but the methods it uses to tackle them need not be numerical and need not be implemented in software or hardware. Combination of biology with mathematics.

In traditional biology, we have small team working on specialized topic but the trend has changed in current bioinformatics where we have large teams who are working together to solve a giant problem in their respective labs and then the results are merged to generate a common result which is of advantage for all the parties.