

1023-K5-505 **Marshall E Hampton*** (mhampton@d.umn.edu), Dept. Mathematics and Statistics, 1117
University Dr., Duluth, MN 55812. *Integrating students from mathematics and
biology*. Preliminary report.

Communication between mathematicians, biologists, and computer scientists is crucial for the present and future success of bioinformatics and mathematical molecular biology. This talk will describe an interdisciplinary course, "Mathematical Foundations of Bioinformatics", in which small groups of students from biology and mathematics will collaborate on most assignments. The core topics for the course are sequence alignment algorithms and implementations, phylogenetic methods, synteny, and gene regulation. (Received September 15, 2006)