

1035-B1-1303 **Hema Gopalakrishnan*** (gopalakrishnanh@sacredheart.edu), Sacred Heart University, and
Kirk Bartholomew, Sacred Heart University. *Linking The Mathematics Curriculum to
Investigative Biology Exercises*. Preliminary report.

The mathematics and biology faculty at Sacred Heart University have developed interdisciplinary case studies for implementation in courses such as precalculus, calculus and statistics. The case studies in mathematics are directly linked to laboratory activities in specific biology courses that require mathematical analysis. The development of these linked curriculum modules comprise an Interdisciplinary Laboratory Activity Projects (ILabAPs). A primary goal of using case studies in mathematics courses is for students to realize that the mathematical skills and concepts they learn in their mathematics courses will be of real benefit to them as they progress through their courses in biology. By directly linking in a clear and transparent manner the mathematical concepts taught in statistics, pre-calculus, and calculus to laboratory exercises requiring mathematical analysis in specific biology courses, we hope to convince students that diligence in learning and retention of the concepts of mathematics will be of "Real World" use in their biology courses. In this talk, a detailed description of one ILabAP as well as a summary of others currently under development will be presented. This project was developed with funding from an NSF-CCLI program grant (DUE: 0632940). (Received September 19, 2007)