**Stat 689: Statistical Bioinformatics**

**Spring 2009**

**Time and Place:** TBD

**Instructor:** Dr. Alan Dabney  
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Office Hours: TBD

**Course Description:** This course will present an overview of the biological concepts, technologies, and statistical challenges of high-throughput genomics / proteomics. Course material will be drawn from journal articles, and students will be required to analyze published datasets.

**Textbook:** None required. Course reading materials will consist of journal articles.

**DoStat:** DoStat is a course management system that we will use in this course. To register, follow the steps below:

1. Go to http://dl.stat.tamu.edu/dostat and click on the “Register here” link.
2. Submit information for your account.
3. After logging in, click on “Add course,” and enter the following information: TBD.

**Computing:** All computing will be done with R or other freely-available resources.

**Grading:** Your grade will be computed as follows:

- **Homework:** 40% - There will be weekly homework assignments. The assignments will typically involve reading journal articles and the analysis of real datasets from the literature.
- **Research Project:** 35% - You will be assigned a research project at the beginning of the semester, to be completed by the end of the semester. The project will require you to develop your own analysis protocol to explore and interpret a proteomics dataset, beginning with the data in raw format, and ending with a formal statistical writeup.
- **Final Exam:** 25% - The final exam will be open answer and will test your understanding of the concepts presented throughout the course.
**Incomplete Grade:** A temporary grade of I (Incomplete) at the end of a semester indicates that the student has **COMPLETE THE COURSE WITH THE EXCEPTION OF A MAJOR QUIZ, FINAL EXAM, OR OTHER WORK.** The instructor shall give this grade only when the deficiency is due to an authorized absence or other cause beyond the control of the student.

**Statement on Disabilities:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Office of Support Services for Students with Disabilities in Cain Hall. The phone number is 845-1637.

**Statement on Plagiarism:** The handouts used in this course are copyrighted. As such, you do not have the right to copy them unless I expressly grant permission. As commonly defined, plagiarism consists of passing off as one’s own ideas, words, writing, etc., that belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you have the permission of that person. If you have any questions, please consult the latest issue of the Texas A&M University Student Rules, under the section “Scholastic Dishonesty.”

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