BCB 593 Fall 2015 Syllabus
Workshop in Bioinformatics and Computational Biology

Course meeting hours and location:
4:10pm – 5:00pm, M, alternate weeks
Location: O&L 115

Course Instructors:
Robert L. Jernigan
Office: 112 Office & Lab
Office hours: by appointment
Contact: jernigan@iastate.edu, 294-3833

No Reference Text
Recommended articles: (will be distributed throughout the course)

Learning Outcome:
By the end of this course, students who have successfully completed should have:
- Broader understanding of more fields of science
- Understand how research is carried out in different organizations: academic, government and companies
- Become familiar with various frontiers in current research
- Gathered research experience in
  - literature survey and study of a selected topic
  - knowledge of a variety computational methods
- Professional development:
  - Improved knowledge of scientific publishing,
  - Personal plan for careers,
  - Enhanced knowledge of grantsmanship,
  - Development of postdoctoral fellowship applications
  - Opportunities to interact with visiting speakers

Course Requirements and Grading:

1. (40%) Attendance.
2. (20%) Class Participation.
3. (20%) Written career plan and written postdoctoral fellowship application.
4. (20%) Oral presentation of career plan and postdoctoral fellowship application to be discussed in class and critiqued by fellow students.
What is expected: develop and describe individual student career plan, and identify future research directions that are interesting to them. Write and develop critical elements of a research grant, aiming for a postdoctoral fellowship application.

Research proposal should include: a definition of the problem, why the problem is significant, the current state of work in the field (what is known about the problem), description of a proposed approach, justification of the proposed approach, identification of leaders in the field and possible mentors to approach, how the results will be evaluated, expected finding from the project, significance of the results to be obtained.

Presentation and report will provide a presentation of the project and a written description.

4. Grading scale:
The tentative grading scale is as follows: 93% = A, 90% = A-, 87% = B+, 83% = B, 80% = B-, 77% = C+, 73% = C, 70% = C-, 67% = D+, 63% = D, 60% = D-.
The instructors may adjust this grading scale downward at the end of the semester, but that will not be determined until the overall course grades are calculated at the end of the semester.

Academic Honesty

Each assignment or project is to be the product of the student’s own intellectual efforts.

The class will follow Iowa State University’s policy on academic dishonesty. Anyone suspected of academic dishonesty will be reported to the Dean of Students Office. [http://www.dso.iastate.edu/ja/academic/misconduct.html](http://www.dso.iastate.edu/ja/academic/misconduct.html) Anyone found responsible will receive an automatic F in the course.

Disability Accommodation

Iowa State University complies with the Americans with Disabilities Act and Sect 504 of the Rehabilitation Act. If you have a disability and anticipate needing accommodations in this course, please contact (instructor name) to set up a meeting within the first two weeks of the semester or as soon as you become aware of your need. Before meeting with us, you will need to obtain a SAAR form with recommendations for accommodations from the Disability Resources Office, located in Room 1076 on the main floor of the Student Services Building. Their telephone number is 515-294-7220 or email disabilityresources@iastate.edu. Retroactive requests for accommodations will not be honored.

Dead Week

This class follows the Iowa State University Dead Week policy as noted in section 10.6.4 of the Faculty Handbook
Harassment and Discrimination
Iowa State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon race, ethnicity, sex (including sexual assault), pregnancy, color, religion, national origin, physical or mental disability, age, marital status, sexual orientation, gender identity, genetic information, or status as a U.S. veteran. Any student who has concerns about such behavior should contact his/her instructor, Student Assistance at 515-294-1020 or email dso-sas@iastate.edu, or the Office of Equal Opportunity and Compliance at 515-294-7612.

Religious Accommodation
If an academic or work requirement conflicts with your religious practices and/or observances, you may request reasonable accommodations. Your request must be in writing, and your instructor or supervisor will review the request. You or your instructor may also seek assistance from the Dean of Students Office or the Office of Equal Opportunity and Compliance.

Contact Information
If you are experiencing, or have experienced, a problem with any of the above issues, email academicissues@iastate.edu.