CIS 4930/6930: Recent Advances in Bioinformatics

1. Catalog Description
See UF course catalog.

2. Pre-requisites and Co-requisites
Algorithms and Data Structures are required. Bioinformatics (CAP 5510) is strongly recommended (not required). I will assume that the students already have basic knowledge on these topics and are comfortable with basic computer programming (e.g., with C or Java).

3. Course Objectives
This course will cover the most recent developments in a broad range of bioinformatics problems. I would like to put more focus on analysis of pathways.

4. Instructor
Tamer Kahveci
a. Office location CSE 566
b. Telephone 352 - 505-1554
c. E-mail address tamer@cise
d. Web site http://www.cise.ufl.edu/~tamer
e. Office hours Tuesday 2:55-3:45 PM / Thursday 4-4:50PM

5. Teaching Assistant
N/A

6. Meeting Times
Monday/Wednesday/Friday 9:35 - 10:25 PM

7. Class/laboratory schedule
See 4 & 6

8. Meeting Location
CSE 222

9. Material and Supply Fees
None

10. Textbooks and Software Required
None. See class page for recommended reading and books.

11. Recommended Reading
(see 10 above)

12. Course Outline
I am planning to cover the following topics.
• Comparison of biological networks
• Network motifs
• Essentiality in networks
• Network reconstruction

13. Attendance and Expectations
• I encourage class attendance.
• Please return your homeworks, project and surveys in time. Late returns will cause 20 % deduction in your grade for that homework (etc) for each late day.
• Please visit only during office hours. If you really need to meet me out of the office hours email me to make an appointment. If I postpone or cancel the office hour, I will post it in the announcements section and (try to) put a note on my office door.
• Please avoid any activities that will disturb the flow of the lectures: Silence your cell phones, pagers, etc.

14. Grading – methods of evaluation
Grading will be based on project (50 %), presentations (20 %), homeworks and quizzes (30 %). Class participation and novelty in projects will be rewarded by bonus (5 % each). Late returns will cause deduction of 20 % of the points for each late day.

15. Grading Scale I will not use curve to determine the letter grades. Roughly the boundaries will be
• 90+ A- and above
• 80+ B and above
• 70+ C and above
• 60+ D and above
• 55- E

16. Make-up Exam Policy N/A

17. Honesty Policy – All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a UF student and to be honest in all work submitted and exams taken in this course and all others.

18. Accommodation for Students with Disabilities – Students Requesting classroom accommodation must first register with the Dean of Students Office. That office will provide the student with documentation that he/she must provide to the course instructor when requesting accommodation.

19. UF Counseling Services – Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:
- University Counseling Center, 301 Peabody Hall, 392-1575, Personal and Career Counseling.
- SHCC mental Health, Student Health Care Center, 392-1171, Personal and Counseling.
- Center for Sexual Assault/Abuse Recovery and Education (CARE), Student Health Care Center, 392-1161, sexual assault counseling.
- Career Resource Center, Reitz Union, 392-1601, career development assistance and counseling.

20. **Software Use** — All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.