BIOL 6810, CSCE 6810, MATH 6710
Advanced Topics in Computational Life Sciences
Topic: Biological Networks

Course Information & Syllabus (Fall 2015)

Instructors: Rajeev K. Azad and Armin R. Mikler
(Both instructors for the entire course duration, 100% responsible)

Lectures/Seminar: Mondays 6:00–8:50 pm
Office Hours: (Mikler) M&Tu 9:30–11:00 AM
(Azad) W & F 8:30–10:00 at GAB 434

Office: A316 LSC and GAB 434 (Azad), NTDP F245 (Mikler)
Phone: 940-369-5078, 940-565-4694 (Azad); 940-565-4279 (Mikler)
E-mail: Rajeev.Azad@unt.edu, mikler@cs.unt.edu,

Required Textbook: There will be no required textbook. The course will be based on published journal and conference articles.

Course Objective: This course focuses on the current topic of “Biological Networks”, which has received significant attention in biology due to advances in systems biology. The goal in this course is to identify and study the established and emerging topics in biological networks, with a focus on methods, algorithms and software/tools for construction and interpretation of the biological networks. Students will read published research, prepare in-class presentations, and will lead a discussion of articles during class. This course shall provide a survey of different approaches to construction and analysis of biological networks.

Assessment is primarily based on paper presentations (45%), project work and written reports (30%), and class participation—attendance and discussions (25%).

Attendance: Attendance is essential and thus is expected.

Americans with Disabilities Act: We cooperate with the Office of Disability Accommodation to make reasonable accommodations for qualified students (cf. Americans with Disabilities Act and Section 504, Rehabilitation Act) with disabilities. If you have not registered with ODA, we encourage you to do so. If you have a disability for which you require accommodation please discuss your needs with the instructor or submit a written Accommodation Request on or before the fourth class day.