BINF690: Numerical Methods in Bioinformatics

Course Time: Mondays, 4:30 pm - 7:10 pm

Location: Innovation Hall, Room 336, Fairfax Campus

Instructor: Dmitri Klimov
Occoquan Building, Room 328C, Prince William Campus
703-993-8395
dklimov@gmu.edu
Office hours: 2-3pm Monday or by appointment

Required textbook: Numerical Methods for Engineers by Chapra and Canale (5\textsuperscript{th} or 6\textsuperscript{th} editions)

Class website: www.binf.gmu.edu/dklimov

Course Description: The course introduces the foundations of computational techniques for solving scientific problems. The practical implementation of numerical techniques for “real-life” problems in computational biology is demonstrated. Students will develop the ability to convert a quantitative problem into computer programs.

Prerequisites: Elementary calculus and knowledge of a programming language. An understanding of the basic concepts of linear algebra and introductory differential equations is helpful.

Grading Policy:
Homework 40%
Midterm classroom exam (open book policy) 30%
Final take-home exam or project 30%

Late assignments will not be accepted unless due to emergency or work-related reason (for working students).

Academic Honesty Policy: Students are expected to follow the Honor Code. Academic dishonesty will not be tolerated in this class. Exams, projects, and homework must reflect individual work. If you have difficulty with the assignments, discuss it with the instructor.

If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Resources at 703/993-2474. All academic accommodations must be arranged through that office.