

NEXT-GENERATION SEQUENCING AND ANALYSIS

BSC4933/BSC5936 & ISC4933/ISC5935

Syllabus

OVERVIEW:

The purpose of this course is to introduce students to cutting edge DNA sequencing technologies. Students will gain conceptual knowledge of the methods and applications and gain hands-on experience analyzing the data. Students with computational background and/or interests will work as a team to develop a new methods of analysis. Students with laboratory experience and/or interests will learn to prepare samples for sequencing in a laboratory setting.

INSTRUCTOR CONTACT INFORMATION:

Dr. Alan R. Lemmon
Office: Dirac 150-A
Office hours: By Appointment.
Phone: 850.445.4393
Email: alemmon@fsu.edu

GRADES:

25%	Participation / Attendance
20%	Quiz I
20%	Quiz II
10%	Oral Presentation
25%	Independent Project Report

CALENDAR: (details on Google calendar, I will email it to you)

Introduction	Jan 4th
Sequencing Technologies	Jan 6th - Jan 25th
Enrichment & Multiplexing	Jan 27th - Feb 8th
Quiz I	Feb 10th
Assembly	Feb 15th - March 15th
Spring Break	Feb 8th & Feb 10th
Quiz II	March 17th
Student Projects	March 22nd - April 19th
Project Presentations	April 19th
Project Reports Due	April 21st
NO FINAL EXAM	

READING ASSIGNMENTS:

Available for download on Blackboard (See Google Calendar for Dates).

University Attendance Policy:

Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

Academic Honor Policy:

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to ". . . be honest and truthful and . . . [to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at <http://dof.fsu.edu/honorpolicy.htm>.)

Americans With Disabilities Act:

Students with disabilities needing academic accommodation should:

- (1) register with and provide documentation to the Student Disability Resource Center; and
- (2) bring a letter to the instructor indicating the need for accommodation and what type. This should be done during the first week of class.

This syllabus and other class materials are available in alternative format upon request.

For more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center
874 Traditions Way
108 Student Services Building
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
(850) 644-8504 (TDD)
sdrc@admin.fsu.edu
<http://www.disabilitycenter.fsu.edu/>

Syllabus Change Policy

"Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice."