

**THE UNIVERSITY OF TEXAS AT EL PASO**  
**COLLEGE OF SCIENCE**  
**BIOINFORMATICS PROGRAM AND**  
**DEPARTMENT OF MATHEMATICAL SCIENCES**

Course #: BINF 5113 (CRN 14799)  
Course Title: Mathematics Seminar for Bioinformatics  
Credit Hours: 1  
Term: Fall 2020  
Course Meetings & Location: 100% Online; Synchronous meeting time: T 12:00 - 12:50 PM  
\*\*\*Please check Blackboard for updates  
Prerequisite Courses: STAT 5380, 5385, 5428, 5329, or Instructor Approval  
Instructors: Dr. Ming-Ying Leung  
Office Location: Bell Hall 225  
Contact Info: Phone # (915)747-6836  
E-mail [mleung@utep.edu](mailto:mleung@utep.edu)  
Fax # (915)747-6502  
Office Hours: [math.utep.edu/Faculty/mleung/officehours](http://math.utep.edu/Faculty/mleung/officehours)  
Textbook(s), Materials: Required: None  
Suggested: Biological Sequence Analysis: Probabilistic Models of Proteins and Nucleic Acids by R. Durbin, S. Eddy, A. Krogh and G. Mitchison.

Course Objectives (Learning Outcomes): Through assigned projects, class discussions, as well as oral presentations, students will acquire the skills to identify bioinformatics problems that require advanced mathematical and statistical knowledge, and to describe and discuss these issues with individuals with suitable expertise.

Course Activities/Assignments: Students will be expected to attend class meetings, participate in discussions, and give oral presentations on assigned materials.

Technology Requirements: Course content is delivered via the Internet through the Blackboard learning management system. Ensure your UTEP e-mail account is working and that you have access to the Web and a stable web browser. Google Chrome and Mozilla Firefox are the best browsers for Blackboard; other browsers may cause complications. When having technical difficulties, update your browser, clear your cache, or try switching to another browser.

You will need to have access to a computer/laptop, scanner, a webcam, and a microphone. You will need to download or update the following software: Microsoft Office, Adobe Acrobat Reader, Windows Media Player, QuickTime, and Java. Check that your computer hardware and software are up-to-date and able to access all parts of the course.

More Technology Requirements: If you do not have a word-processing software, you can download Word and other Microsoft Office programs (including Excel, PowerPoint, Outlook and more) for free via UTEP's Microsoft Office Portal. Click the following link for more information about Microsoft Office 365 and follow the instructions.

**IMPORTANT:** If you encounter technical difficulties beyond your scope of troubleshooting, please contact the UTEP Help Desk as they are trained specifically in assisting with technological needs of students. Please do not contact me for this type of assistance. The Help Desk is much better equipped than I am to assist you!

Objectives Assessment: In class discussions and presentations

Course Schedule: **September 9** – Class Census Day. If a student drops before the census date, neither the course nor a grade will appear on the student's academic record. This is the last day to drop without a W.  
**October 30** - Course Drop Deadline

Grading Policy: Grades are based on quality of student's assigned presentation and his/her participation in discussions at the seminars presented by others.

Make-up Policy: No late homeworks are allowed. Make-up examinations will not be given.

Course Communication: **Email:** UTEP e-mail is the best way to contact me. I will make every attempt to respond to your e-mail within 24-48 hours of receipt. When e-mailing me, be sure to email from your UTEP student account and please put the course number in the subject line. In the body of your e-mail, clearly state your question. At the end of your e-mail, be sure to put your first and last name, and your university identification number.  
**Discussion Board:** If you have a question that you believe other students may also have, please post it in the Help Board of the discussion boards inside of Blackboard. Please respond to other students' questions if you have a helpful response.  
**Announcements:** Check the Blackboard announcements frequently for any updates, deadlines, or other important messages.

Attendance Policy: Class attendance is required and noted at the beginning of class; more than two unexcused absences will result in an instructor-initiated drop or final grade reduction.

Academic Integrity Policy: Violations of academic integrity, including unauthorized submission of work performed by others, will be pursued vigorously to result in the most severe sanctions. Please refer to UTEP's policy cited in [sa.utep.edu/osccr/academic-integrity](http://sa.utep.edu/osccr/academic-integrity).

**Civility Statement:** No text messaging in class. Please silence cell phones before coming to class. Students are expected to actively participate in class discussions and group activities. Group work that is not completed in class is to be finished as homework, so use the class time wisely by staying focused on the class topic and avoiding chit-chat.

**Disability Statement:** If a student has or suspects she/he has a disability and needs an accommodation, he/she should contact the Center for Accommodations and Support Services (CASS) at 747-5148, email at [cass@utep.edu](mailto:cass@utep.edu), or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any CASS accommodation letters and instructions.

**Military Statement:** If you are a military student with the potential of being called to military service and/or training during the course of the semester, you are encouraged to contact as soon as possible.