

Random Processes FALL 2024

COURSE SYLLABUS

Meets	TuTh 12:30-1:45PM
Location	LA5-169
Instructor	Dr. Olga Korosteleva
Office	FO3-208
E-mail Address	<i>Olga.Korosteleva@csulb.edu</i> (for questions), <i>stat482f24@mail.com</i> (for assignments)
Office Phone Number	no phone
Course Webpage	https://home.csulb.edu/~okoroste/stat482.html
Office Hours	MTuWTh 9:30 - 10:45 AM, or on Zoom by appointment

Course Goals You are expected to learn the fundamentals of random processes, from key concepts and definitions, to trajectory simulations, and to applications in scientific fields.

Textbook Korosteleva, O. (2022). *Stochastic Processes with R: An Introduction*, Chapman and Hall/CRC.

Calculator You need a scientific calculator.

Software R (and R studio) software will be used for this course. Both are free downloads. All the necessary information will be provided by the instructor.

Adding Course If you would like to add the course, the instructor may give you permission to register. It is your responsibility to finish the process of enrollment.

Withdrawal Policy The CNSM policies for drops and withdrawals are available on the course website.

Disability Students with disabilities who require reasonable academic accommodations are strongly encouraged to register with the Bob Murphy Access Center (BMAC) each semester. Students must submit supporting disability documentation to BMAC and provide faculty with a BMAC verification of accommodations as early in the semester as possible. BMAC is located in the Shakarian Student Success Center, Room 110 and can also be reached by phone at (562) 985-5401 or via email at *bmac@csulb.edu*. The policy of the CSU is to make its programs, services, and activities accessible to students, faculty, staff, and the general public, with disabilities who visit or attend a campus-sponsored event.

Attendance and Participation The lectures will be held in person. Class attendance will not be checked but is very strongly recommended.

Assignments and Exams There will be five homework assignments, two midterm exams, a project (with PowerPoint presentation and written report) and a noncumulative final. The exams are closed-book. A self-prepared formula sheet is allowed (several pages

are okay). Homework assignments may be submitted on paper or sent in an electronic format to stat482f24@mail.com, in a single pdf file. A project report should be submitted electronically. You are responsible for keeping track of the course schedule and observing all the deadlines.

Academic Honesty Academic honesty will be strictly enforced. All identical submitted assignments will receive 0%, and no resubmission will be allowed. Students will be strongly encouraged to personalize their codes, and submit individual work.

Course Webpage The course webpage is located at <https://home.csulb.edu/~okoroste> in the folder “STAT 482”. It will contain updated grades, syllabus, schedule, and all study-related materials.

Final Grade Your final grade is based on your total points of a possible 700: 60 points for each of the five homeworks, 100 points for each of the two midterms, 100 points for the project, and 100 points for the final. Grades will be based on the traditional 90% & above = A, 80%-89% = B, 70%-79% = C, 60%-69% = D, and 59% & below = F.

University Policies The university is committed to providing a safe and positive learning environment and has established a zero-tolerance policy for any sexual/gender-based misconduct, including, but not limited to sexual harassment, assault, relationship violence, or stalking. We practice tolerance and denounce hate and prejudice. Our classroom will strive to be a place of mutual respect where the focus is on learning and student success.

University Resources The following entities at CSULB have been established to provide support and assistance for victims of sexual harassment and assault:

- Title IX Office: http://web.csulb.edu/divisions/students/titleix/titleix_reporting.html
- CSULB University Police Department: <https://www.csulb.edu/university-police/titleix>
- Women’s & Gender Equity Center: http://web.csulb.edu/divisions/students/wrc/sexual_assault/
- Counseling & Psychological Services (CAPS) Office: <http://web.csulb.edu/divisions/students/caps/>
- Student Health Services: http://web.csulb.edu/divisions/students/shs/sexual_assault.htm

For more information regarding CSULB’s policies on sexual misconduct and discrimination go to <http://www.csulb.edu/titleix>.

Undocumented students Undocumented students are welcome in this class. If you are undocumented and need assistance with completing courses or a degree at CSULB, the staff of the Dream Success Center can help you with advising, campus services, legal immigration support, and other university resources. Visit the Dream Success Center in the Student Success Center, Room 290, and contact them at (562)985-5869 or via email at dream@csulb.edu. For more information, please visit <https://csulb.edu/dream>.