

# Introduction to Probability

STA 4321

Spring 2025

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Office Hours:	TBA	Office Hours:	TBA

Lecture: TBD  
TBD

**Text** The official text is *Mathematical Statistics with Applications, 7th edition* by Wackerly, Mendenhall, Schaeffer. I will also use (free) supplementary texts.

**Course Content** Theory of probability including: counting, conditional probability, independence, additive and multiplicative laws, Bayes' Rule. Discrete and continuous random variables, their distributions, moments and moment generating functions. Multivariate probability distributions, independence, covariance. Distributions of functions of random variables, sampling distributions, central limit theorem.

**Written Homework** We will have homework assignments on weeks without an exam. They will be due on Friday.

**Online Homework** We will have online homework assignments. Some of them will require writing elementary programs in the statistical programming language R.

**Exams** We will have three exams. They will focus on the most recent material, but math courses are necessarily cumulative so later exams will use techniques developed earlier in the course. Student may create a handwritten note sheet. The exam dates are:

Exam 1: February 14, Exam 2: March 14, Exam 3: April 18

**Grading** Grades will be assigned according to the following rubric:

**Homework:** 25%

**Online Homework:** 15%

**Exams:** 60%

The final grades will be curved, but will be no tougher than the 10-point scale: 90%-100% will be some form of A, 80-90% will be at least some form of B, etc. After the third quiz, you will receive a projected grade based on your work to date.

If you have a disagreement with the grading of one of your solutions, I ask that you submit a written request for reconsideration within one week of receiving your grade.

Grading will be in accord with the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

<b>Honor code</b>	IUF students are bound by The Honor Pledge which states, We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: On my honor, I have neither given nor received unauthorized aid in doing this assignment. The Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor.
<b>Attendance</b>	Attendance will not be monitored. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: <a href="https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx">https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx</a> .
<b>Accommodations for students with disabilities</b>	Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <a href="https://www.dso.ufl.edu/drc/">https://www.dso.ufl.edu/drc/</a> ) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.
<b>Online Evaluations</b>	Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <a href="https://evaluations.ufl.edu">https://evaluations.ufl.edu</a> . Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <a href="https://evaluations.ufl.edu/results/">https://evaluations.ufl.edu/results/</a> .
<b>Students with Learning Disabilities</b>	Students requesting class and exam accommodations must first register with the Dean of Students Office Disability Resource Center (DRC), <a href="http://www.dso.ufl.edu/drc/">www.dso.ufl.edu/drc/</a> . That office will provide a documentation letter via email to your instructor. This must be done as early as possible in the semester, <b>at least one week before the first exam</b> , so there is adequate time to make proper accommodations.
<b>Complaints</b>	The official UF policy for filing a complaint about the course may be found at <a href="https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf">https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf</a> .
<b>U Matter, We Care</b>	Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact <a href="mailto:umatter@ufl.edu">umatter@ufl.edu</a> so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.