

MATH 3810.001 Intro to Probability and Statistics Spring, 2019

Meetings: Tu, Th 10:50 am -12:05 pm, Engr 109

Instructor: Greg Morrow

Office: Engr 284, phone: 719. 255.3184

Hours: Tu &Th: 10:15 -10:45 am, and Tu &Th: 1:45 - 2:45 pm

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Prerequisite: Calculus III (MATH 2350).

Text: *Probability & Statistics for Engineers & Scientists*, 9th ed., R.E. Walpole, R.H. Myers, S.L. Myers, and K. Ye. Upper Saddle River, NJ: Prentice Hall (2012). ISBN: 978-0-321-62911-1.

Description: A calculus-based introduction to probability and statistics. Topics include: combinatorics; probability; discrete and continuous distributions; joint, marginal and conditional distributions; expectation, variance, covariance, and Chebyshev's law; Binomial, Geometric, Poisson, Hypergeometric, Uniform, Normal, Exponential, and Gamma distributions; moment generating functions and applications; sampling distributions; Student and Chi-square distributions; single sample confidence intervals; point estimation under two independent samples and paired samples designs; estimation of variance.

Homework and Tests: Homework will be assigned and collected weekly. Assignments will appear online in Canvas. Late homework will not be accepted. The lowest homework score will be dropped. There will be one quiz, two mid-semester tests and a final exam. The following percentages may be used to compute the final grade: homework, 15%; quiz, 5%; midterm tests, 25% each; final exam, 30%.

Final Exam: Tuesday, May 14, 10:20 am - 12:20 pm

Grading: 90's => grade of A, 80's => grade of B or better, 70's => grade of C or better.

Excel Math Center

The Math Center is a study space for all students on campus, whether you need a little help, a lot of help, or none at all. They have a staff of about 20 tutors who have taken at least through Calculus 3, and who have been trained to work with students one on one. The center is a great place to sit on your own or with classmates, work on homework, study for exams, review concepts from previous classes, or just check your homework answers. The Math Center is located in Engineering 233, and is open Monday – Thursday 8:00 am – 7:00 pm, Friday 8:00 am – 4:30 pm, Sunday 11:00 am – 3:00 pm, and online (to be announced). Come in, sign in, enjoy some free coffee, and have a seat. If you have a question, raise your hand and a tutor will come to you. You can find the schedule of tutors, and a lot more information about the center at the Math Center's webpage.

MATH 3810.001 Probability and Statistics Schedule, Spring 2019 (subject to change)

Meetings Coverage in Text HW (Homework) Due Date

1/22, 1/24	2.1-2.3	
1/29, 1/31	2.4-2.6	HW I , 1/31
2/5, 2/7	2.7, 3.1-3.2	HW II , 2/7
2/12, 2/14	3.3, 3.4	QUIZ Tues., 2/12 , on Sect. 2.1–2.6; HW III , 2/14
2/19, 2/21	4.1, 4.2-4.3	HW IV , 2/21
2/26, 2/28	4.4, 5.1-5.3	HW V , 2/28
3/5, 3/7	Review; Test 1	TEST 1 , 3/7 , covers 2.4 – 4.1.
3/12, 3/14	5.4-5.5, 6.2-6.4	HW VI , 3/14
3/19, 3/21	6.5, 6.6	HW VII , 3/21
Spring Break, 3/25-3/31		
4/2, 4/4	7.3, 8.1-8.4	HW VIII , 4/4
4/9, 4/11	Review; Test 2	TEST 2 , 4/11 , covers 4.2–5.5 & 6.2–6.5
4/16, 4/18	8.5, 9.4-9.5	HW IX , 4/18
4/23, 4/25	9.8 - 9.9	HW X , 4/25
4/30, 5/2	9.10 - 9.12	HW XI , 5/2
5/7, 5/9	Review for Final	E.C. HW XII , Tues., 5/7

Final Exam: Tuesday, 5/14, 10:20 am – 12:20 pm

Peer Assisted Study Sessions

A Peer Assisted Study Session (PASS) component is provided in this course for all students who want to improve their understanding of the material. PASS sessions are led by a student who has already taken the course and has been trained to facilitate group sessions where students can meet to compare class notes, review and discuss important concepts, develop strategies for studying, and prepare for exams. Attendance at PASS sessions is free and voluntary. Students may attend as many times as they choose. Students who regularly attend PASS sessions earn, on average, a letter grade higher than students who do not attend. PASS sessions begin the first or second week of class and continue throughout the semester. A session schedule will be announced in class. For information about the program and session schedule/updates, visit us online.