

STAT 3743 - Probability and Statistics

Summer 2026 Syllabus, Section A01, CRN 30048,

Credit hours: 4

Instructor

G. Jay Kerns

Professional Qualifications:

Ph. D., Mathematics, Statistics Specialization, Bowling Green State University

M.A., Mathematics, Bowling Green State University

B.A. Ed., Music, Mathematics, Science, Glenville State College

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Communication Expectations:

Contact me anytime.

How to Refer to me:

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Course Description

3743. Probability and Statistics. A calculus-based probability and statistics course. Topics include descriptive statistics, probability models and related concepts and applications, statistical estimation, and hypothesis testing. Credit will not be given for both STAT 3717 and STAT 3743. Prereq.: "C" or better in MATH 1572, MATH 1572H, MATH 1581, MATH 1581H or MATH 1585H. 4 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Connect Online Access for Statistics for Engineers and Scientists. Navidi. (6th Edition).	Navidi	8220130831400

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
5/11	Chapter 1	Sampling and Descriptive Statistics	
5/18	Chapter 2 Chapter 3	Probability Propagation of Error	
5/25	Chapter 4	Commonly Used Distributions	Chapter 1 exercises Chapter 2 exercises Chapter 3 exercises Exam 1
6/1	Chapter 5	Confidence Intervals	
6/8	Chapter 6	Hypothesis Testing	

6/15	Chapter 7 Chapter 8	Correlation and Simple Linear Regression Multiple Regression	Exam 2 Chapter 4 Exercises Chapter 5 Exercises Chapter 6 Exercises
6/22	Chapter 9 Chapter 10	Factorial Experiments Statistical Quality Control	Chapter 7 Exercises Chapter 8 Exercises Chapter 9 Exercises Chapter 9 Exercises Final Exam

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.