

STAT 2625C - Statistical Literacy and Critical Reasoning with Co-Requisite Support

Fall 2026 Syllabus, Section 03, CRN 42892,

Credit hours: 6

Instructor

Brittany Barbush

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Public Instructor Information

Instructor Title: Part-time Faculty

Instructor Professional Qualifications: *Master of Science, Mathematics, Shawnee State University (2022). Bachelor of Science, Education, Kent State University (2013)*

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Course Description

2625C. Statistical Literacy and Critical Reasoning with Co-Requisite Support. An introduction to statistics and its applications. Topics include descriptive statistics, experimental design, probability, sampling distribution, statistical inference, correlation and regression. Emphases are on applications, critical reasoning, and data analysis using statistical software. Includes co-requisite support for basic algebra skills required to be successful in the course. 6 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Elementary Statistics-Brief, with ALEKS access	Allan Bluman	9781260487510

- Inclusive Access

This course is part of the Inclusive Access program; you should NOT purchase any course materials as they are part of your course registration. In the event you drop this course from your schedule on or prior to the last day of DROP/ADD period, your account will be fully refunded automatically.

- Opt-out

By default, students are opted into the content. If the student decides at that time, they do not want their required course materials to be delivered in this program at the low cost offered, they have the option to OPT-OUT. We highly encourage students not to opt-out. If you choose to opt-out, you will be responsible for obtaining the appropriate course materials/textbook/connect at the full price.

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
8/24	1.1-1.5 2.1-2.4	The Nature of Probability and Statistics Frequency Distributions and Graphs	
8/31	3.1-3.4	Data Description	
9/7	3.1-3.4	Data Description	
9/14	4.1-4.5	Probability and Counting Rules	
9/21	4.1-4.5	Probability and Counting Rules	
9/28	5.1-5.3	Discrete Probability Distributions	
10/5	6.1-6.3	The Normal Distribution	

10/12	7.1-7.3	Confidence Intervals and Sample Size
10/19	7.1-7.3	Confidence Intervals and Sample Size
10/26	8.1-8.4	Hypothesis Testing
11/2	8.1-8.4 (9.1-9.3 optional)	Hypothesis Testing
11/9	10.1-10.2	Correlation and Regression
11/16	11.1-11.2	Chi-Square and Analysis of Variance
11/23	11.1-11.2	Chi-Square and Analysis of Variance
11/30	Final Exam	Final Exam: Friday, December 11th 8:00am - 10:00am

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.