

STAT 2625 - Statistical Literacy and Critical Reasoning

Fall 2026 Syllabus, Section 18, CRN 43450,

Credit hours: 4

Instructor

Pamela Ross

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Public Instructor Information

Instructor Title: Mrs. Pam Ross

Instructor Professional Qualifications: College Credentials, Graduate Math Courses, Youngstown State University; Master's, Educational Administration, Youngstown State University; Bachelor's, Secondary Math Education, California University of Pennsylvania (NKA: PennWest California)

Instructor Office Location: Cafaro Hall, room 632

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Course Description

2625. Statistical Literacy and Critical Reasoning. An introduction to statistics and its applications. Topics include descriptive statistics, experimental design, probability sampling distribution, statistical inference, correlation and regression. Emphasis on applications, critical reasoning, and data analysis using statistical software. Credit will not be given for both STAT 2601 and STAT 2625. Prereq.: At least Mathematics Placement Level 15. 4 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	The Nature of Probability and Statistics	
8/31	2.1-2.4	Frequency Distributions and Graphs	
9/7	2.1-2.4	Frequency Distributions and Graphs	
9/14	3.1-3.4	Data Description	
9/21	4.1-4.5	Probability and Counting Rules	
9/28	4.1-4.5	Probability and Counting Rules	

10/5	5.1-5.3 6.1-6.3	Discrete Probability Distributions The Normal Distribution
10/12	6.1-6.3	The Normal Distribution
10/19	7.1-7.3	Confidence Intervals and Sample Size
10/26	7.1-7.3	Confidence Intervals and Sample Size
11/2	8.1-8.4 (9.1-9.3 optional)	Hypothesis Testing
11/9	8.1-8.4	Hypothesis Testing
11/16	10.1-10.2	Correlation and Regression
11/23	11.1-11.2	Chi-Square and Analysis of Variance
11/30	11.1-11.2	Chi-Square and Analysis of Variance
12/7	Final Exam	Cumulative Exam: Wednesday, 3:10

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.