



North Central State College

MASTER SYLLABUS **2025-2026**

K. College-Wide Learning Outcomes:

College-Wide Learning Outcome	Assessments - - How it is met & When it is met
Communication – Written	
Communication – Speech	
Intercultural Knowledge and Competence	
Critical Thinking	
Information Literacy	
Quantitative Literacy	Quantitative Literacy VALUE Rubric, middle of term.

L. Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

Outcomes	Assessments – How it is met & When it is met
1. Define foundational terms used in statistics and identify characteristics of a well-designed statistical study.	HW, Project, Tests, final exam, early in the term.
2. Collect, organize, and summarize data in tables, charts, and with statistics/parameters.	HW, Project, Tests, final exam Early in the term.
3. Describe the relationship between two variables both visually and numerically.	HW, Project, Tests, final exam Early in the term.
4. Apply the rules and concepts of probability to solve a variety of problems.	HW, Tests, final exam Middle of the term.
5. Apply the binomial, poison, and hyper-geometric discrete probability distributions to solve appropriate statistical problems.	HW, Tests, final exam Middle of the term.
6. Apply the normal distribution to solve appropriate statistical problems.	HW, Tests, final exam Late in the term.
7. Define sampling distributions and generate said distributions to observe the Central Limit Theorem.	HW, Project, Tests, final exam Late in the term.
8. Calculate confidence intervals for means and proportions using the z and t distributions.	HW, Project, Tests, final exam Late in the term.
9. Compute one population tests for means and proportions using the z and t distributions.	HW, Project, Tests, final exam Late in the term.

M. Recommended Grading Scale:

NUMERIC	GRADE	POINTS	DEFINITION
93–100	A	4.00	Superior
90–92	A-	3.67	Superior
87–89	B+	3.33	Above Average
83–86	B	3.00	Above Average
80–82	B-	2.67	Above Average
77–79	C+	2.33	Average
73–76	C	2.00	Average
70–72	C-	1.67	Below Average
67–69	D+	1.33	Below Average
63–66	D	1.00	Below Average
60–62	D-	0.67	Poor
00–59	F	0.00	Failure

N. College Procedures/Policies:

North Central State College believes that every student is a valued and equal member of the community.* Every student brings different experiences to the College, and all are important in enriching academic life and developing greater understanding and appreciation of one another. Therefore, NC State College creates an inclusive culture in which students feel comfortable sharing their experiences.

Discrimination and prejudice have no place on the campus, and the College takes any complaint in this regard seriously. Students encountering aspects of the instruction that result in barriers to their sense of being included and respected should contact the instructor, assistant dean, or dean without fear of reprisal.

* *Inclusive of race, color, religion, gender, gender identity or expression, national origin (ancestry), military status (past, present or future), disability, age (40 years or older), status as a parent during pregnancy and immediately after the birth of a child, status as a parent of a young child, status as a foster parent, genetic information, or sexual orientation*

Important information regarding College Procedures and Policies can be found on the syllabus supplement located at:

<https://ncstatecollege.edu/documents/President/PoliciesProcedures/PolicyManual/Final%20PDF/14-081b.pdf>



North Central State College
SYLLABUS ADDENDUM

Academic Division: Liberal Arts
Course Coordinator: Sara K. Rollo
Course Number: STAT 1010-922
Semester / Session: Spring 2026/Session A

Discipline: Mathematics
Course Title: Probability and Statistics
Start / End Date: 01/12/2026 – 03/06/2026

Instructor Information

Name: Christine Shearer
Phone Number: 419-755-4755
Office Location: _____

Credentials: M.S. Mathematics/B.S. Mathematics
E-Mail Address: cshearer@ncstatecollege.edu
Office Hours: Mondays 11am-12pm, Wednesdays 10am-12pm, Fridays 10am-12pm

I. Topical Timeline (Subject to Change):

Weeks	Topics	Assignment	Due Date
1	Learn an overview of statistics, sampling methods, and types of data	Chapter 1 Homework	1/17
	Collect, organize, and summarize data in tables, charts, and with statistics/parameters.	Chapter 2 Homework	1/17
	Determine measures of central tendency and measures of dispersion		
2	Topics from Chapters 1 and 2	Chapter 1 and 2 Test	1/20
		Benchmark 1	1/20
3	Describe the relationship between two variables both visually and numerically	Chapter 12 Homework	1/24
	Apply the rules and concepts of probability to solve a variety of problems	Chapter 3 Homework	1/27
	Topics from Chapters 12 and 3	Chapter 12 and 3 Test	1/31
4	Topics from Chapter 2	Benchmark 2	1/31
	Apply the binomial, Poisson, geometric, hypergeometric and discrete probability distributions to solve appropriate statistical problems	Chapter 4 Homework	2/3
		Chapter 4 Quiz	2/7
5	Topics from Chapter 3	Benchmark 3	2/7
	Apply the uniform and exponential probability distributions to solve appropriate statistical problems	Chapter 5 Homework	2/10
	Apply the normal distribution to solve appropriate statistical problems	Chapter 6 Homework	2/14
6	Define sampling distributions and use the Central Limit Theorem	Chapter 7 Homework	2/17
	Topics from Chapters 6 and 7	Chapter 6 and 7 Test	2/21
7	Calculate confidence intervals for means and proportions using the z and t distributions	Chapter 8 Homework	2/24
	Topics from Chapter 8	Chapter 8 Quiz	2/24
	Compute one population tests for means and proportions using the z and t distributions	Chapter 9 Homework	2/28
8	Topics from Chapters 8 and 9	Benchmark 4	2/28
	Topics from Chapters 1, 2, 3, 8 and 9	Project	3/3
	Topics from the course	Final Exam	3/7

II. Grading and Testing Guidelines:

Final Grade Calculation

Activity	Qty	Points	Percentage
Homework	10	100	10%
Project	1	100	10%
Quizzes	2	200	10%
Tests	3	300	50%
Final Exam	1	100	20%
Total			100%

Course Number: _____
Semester / Session: _____

Course Title: _____
Start / End Date: _____

IV. Examination Policy:

There will be two quizzes (after Chapter 4 and after Chapter 8). They are timed and you will have two attempts per question on the quiz. You will have 3 hours (180 minutes) to complete each quiz. The quizzes must be completed in a single setting (i.e. the timer cannot be paused).

There will be three tests (Chapters 1 and 2, Chapters 12 and 3, Chapters 6 and 7). There will also be a comprehensive final exam at the end of the semester. They are timed and you will have two attempts per question. You will have 4 hours (240 minutes) for each of the three tests. You will have 6 hours (360 minutes) for the final exam. The tests and final exam must be completed in a single setting (i.e. the timer cannot be paused).

Students will not be allowed to begin a quiz or test and then request an extension. Do not click on the quiz or test link until you are fully prepared to take the exam.

The homework, quizzes, tests and final exam will be completed on WebAssign. There is a project due at the end of the course that will not be completed on WebAssign. I have benchmark assignments due throughout the semester to help keep you on track with the project. The project and the benchmark assignments will be submitted through Canvas.

V. Class Attendance and Homework Make-Up Policy:

This is an online hybrid course which means that we will meet as a class virtually through Zoom on Mondays and Wednesdays from 6:00PM – 7:15PM. The rest will be done by watching videos provided by me and reading the textbook. I will also be holding office hours through Zoom on Mondays from 11:00AM – 12:00PM, Wednesdays from 10:00AM – 12:00PM and Fridays from 10:00AM – 12:00PM on Zoom and you can also contact me to schedule another time to meet virtually.

Your assignments will be due twice per week on Tuesdays and Saturdays by 11:59pm. Unlike the quizzes and tests, you will have 100 attempts per question on the homework. This means that you can work towards 100% on every homework assignment if you keep working on them!

VI. Classroom Expectations:

I expect you to attend class on Zoom on Mondays and Wednesdays. Attendance will enhance your understanding of the material and therefore increase your chance of success in the course. In preparation for each week's meeting, I would like you to read the chapter, watch the lecture video(s) that I post on Canvas and look at the homework so that you know where you might be struggling. We will then work through examples to help you complete the homework and quizzes. When a test is due, we can use the class time for review.

Sunday		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
Week 1	Jan 11	Jan 12	Jan 13			Jan 14		Jan 15		Jan 16		Jan 17	
												Chapter 1 Homework Due	Chapter 2 Homework Due
Week 2	Jan 18	Jan 19	Jan 20			Jan 21		Jan 22		Jan 23		Jan 24	
				Chapter 1 and 2 Test Due	Benchmark 1 Due							Chapter 12 Homework Due	
Week 3	Jan 25	Jan 26	Jan 27			Jan 28		Jan 29		Jan 30		Jan 31	
				Chapter 3 Homework Due								Chapter 12 and 3 Test Due	Benchmark 2 Due
Week 4	Feb 1	Feb 2	Feb 3			Feb 4		Feb 5		Feb 6		Feb 7	
				Chapter 4 Homework Due								Chapter 4 Quiz Due	Benchmark 3 Due
Week 5	Feb 8	Feb 9	Feb 10			Feb 11		Feb 12		Feb 13		Feb 14	
				Chapter 5 Homework Due								Chapter 6 Homework Due	
Week 6	Feb 15	Feb 16	Feb 17			Feb 18		Feb 19		Feb 20		Feb 21	
				Chapter 7 Homework Due								Chapter 6 and 7 Test Due	
Week 7	Feb 22	Feb 23	Feb 24			Feb 25		Feb 26		Feb 27		Feb 28	
				Chapter 8 Homework Due	Chapter 8 Quiz Due							Chapter 9 Homework Due	Benchmark 4 Due
Week 8	Mar 1	Mar 2	Mar 3			Mar 4		Mar 5		Mar 6		Mar 7	
				Project Due								Final Exam Due	