MAT 221: Statistics

M W

Section 1

Topic and Homework Schedule

The contents of this schedule are subject to change. The instructor will notify students of any changes.

Day	Date	Sec.	Section Title	LG/Quiz	HW	WQ
1	Aug 26 W	-	Introduction	—	—	
2	Aug 31 M	1.1 – 1.3	Language of Statistics	✓	✓	
3	Sep 2 W	1.4	Language of Experiments	✓	✓	WQ1
	Sep 7 M	-	No Class — Labor Day			
4	Sep 9 W	2.1 – 2.2	Data Visuals, Stemplots, Frequency, Histograms	✓	✓	WQ2
5	Sep 14 M	2.3 – 2.4	Measures of Location and Boxplots	✓	✓	
6	Sep 16 W	2.5 – 2.7	Measures of Center and Spread and Variation	✓	✓	WQ3
7	Sep 21 M	-	In the Wild — Overview and Examples	—	—	
8	Sep 23 W	-	Review	—	—	
Celebration of Knowledge 1 — Testing Center (Robey 10), Sept. 30, Oct. 1 & 6, 4:00–10:00 PM						
9	Sep 28 M	3.1 – 3.2	Basics in Probability (Three Definitions)	✓	✓	
10	Sep 30 W	3.3 – 3.5	Two Rules and Contingency (2-Way) Tables	✓	✓	
11	Oct 5 M	4.1 – 4.2	Random Variables (Discrete) and Parameters	✓	✓	
12	Oct 7 W	4.3 – 4.6	Binomial, Geometric, and Poisson Distributions	✓	✓	WQ4
13	Oct 12 M	5.1 – 5.3	Continuous Random Variables and Uniform Dist.	✓	✓	
14	Oct 14 W†	6.1 – 6.2	The Normal Distribution	✓	✓	WQ5
15	Oct 19 M	-	Normal Distribution Practice	—	—	
16	Oct 21 W	7.1 – 7.3	Sample Means and The Central Limit Theorem	✓	✓	WQ6
	Oct 26 M	-	No Class — Fall Break			
17	Oct 28 W	-	Review	—	—	
Celebration of Knowledge 2 — Testing Center (Robey 10), Nov. 4, 5 & 10, 4:00–10:00 PM						
18	Nov 2 M	8.1 – 8.3	Point Estimates and Confidence Intervals	✓	✓	
19	Nov 4 W	9.1 – 9.4	Introduction to Hypothesis Testing	✓	✓	
20	Nov 9 M	9.5	Hypothesis Testing (Continued)	✓	✓	
21	Nov 11 W	10.1 – 10.4	Two-Sample Tests	✓	✓	WQ7
22	Nov 16 M	11.1 – 11.6	Chi-Squared Tests	✓	✓	
23	Nov 18 W	12.1 – 12.4	Correlation and Regression	✓	✓	WQ8
24	Nov 23 M	-	Review	—	—	
	Nov 25 W	-	No Class — Thanksgiving Break			
Celebration of Knowledge 3 — Testing Center (Robey 10), Dec. 2, 3 & 8, 4:00–10:00 PM						
25	Nov 30 M	12.5 – 12.6	Prediction and Modeling	✓	✓	
26	Dec 2 W	13.1 – 13.3	ANOVA	✓	✓	
27	Dec 7 M	-	Bootstrapping and General Methods	✓	✓	
28	Dec 8 T‡	-	Project Presentations and Review for Final	—	—	

Day	Date	Sec.	Section Title	LG/Quiz	HW	WQ
	Dec 9 W	-	No Class — Reading Day			
	Dec 10–15	**Comprehensive Final Exam — during the final exam period, date and time TBA**				

† Oct. 14 is a *Curricular Monday* — the campus runs Monday's schedule, and this class still meets at its usual time.

‡ Dec. 8 is a *Curricular Wednesday* — the campus runs Wednesday's schedule, so this MW section meets on that Tuesday.

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T R

Section 2

Topic and Homework Schedule

The contents of this schedule are subject to change. The instructor will notify students of any changes.

Day	Date	Sec.	Section Title	LG/Quiz	HW	WQ
1	Aug 27 R	-	Introduction	—	—	
2	Sep 1 T	1.1 – 1.3	Language of Statistics	✓	✓	
3	Sep 3 R	1.4	Language of Experiments	✓	✓	WQ1
4	Sep 8 T	2.1 – 2.2	Data Visuals, Stemplots, Frequency, Histograms	✓	✓	
5	Sep 10 R	2.3 – 2.4	Measures of Location and Boxplots	✓	✓	WQ2
6	Sep 15 T	2.5 – 2.7	Measures of Center and Spread and Variation	✓	✓	
7	Sep 17 R	-	In the Wild — Overview and Examples	—	—	WQ3
8	Sep 22 T	-	Review	—	—	
Celebration of Knowledge 1 — Testing Center (Robey 10), Sept. 30, Oct. 1 & 6, 4:00–10:00 PM						
9	Sep 24 R	3.1 – 3.2	Basics in Probability (Three Definitions)	✓	✓	
10	Sep 29 T	3.3 – 3.5	Two Rules and Contingency (2-Way) Tables	✓	✓	
11	Oct 1 R	4.1 – 4.2	Random Variables (Discrete) and Parameters	✓	✓	
12	Oct 6 T	4.3 – 4.6	Binomial, Geometric, and Poisson Distributions	✓	✓	
13	Oct 8 R	5.1 – 5.3	Continuous Random Variables and Uniform Dist.	✓	✓	WQ4
14	Oct 13 T	6.1 – 6.2	The Normal Distribution	✓	✓	
15	Oct 15 R	-	Normal Distribution Practice	—	—	WQ5
16	Oct 20 T	7.1 – 7.3	Sample Means and The Central Limit Theorem	✓	✓	
17	Oct 22 R	-	Review	—	—	WQ6
Celebration of Knowledge 2 — Testing Center (Robey 10), Nov. 4, 5 & 10, 4:00–10:00 PM						
18	Oct 27 T	8.1 – 8.3	Point Estimates and Confidence Intervals	✓	✓	
19	Oct 29 R	9.1 – 9.4	Introduction to Hypothesis Testing	✓	✓	
20	Nov 3 T	9.5	Hypothesis Testing (Continued)	✓	✓	
21	Nov 5 R	10.1 – 10.4	Two-Sample Tests	✓	✓	
22	Nov 10 T	11.1 – 11.6	Chi-Squared Tests	✓	✓	
23	Nov 12 R	12.1 – 12.4	Correlation and Regression	✓	✓	WQ7
24	Nov 17 T	-	Review	—	—	
Celebration of Knowledge 3 — Testing Center (Robey 10), Dec. 2, 3 & 8, 4:00–10:00 PM						
25	Nov 19 R	12.5 – 12.6	Prediction and Modeling	✓	✓	WQ8
26	Nov 24 T	13.1 – 13.3	ANOVA	✓	✓	
	Nov 26 R	-	No Class — Thanksgiving Break			
27	Dec 1 T	-	Bootstrapping and General Methods	✓	✓	
28	Dec 3 R	-	Project Presentations and Review for Final	—	—	
	Dec 8 T‡	-	No Class — Curricular Wednesday			
	Dec 10–15	**Comprehensive Final Exam — during the final exam period, date and time TBA**				

‡ Dec. 8 is a *Curricular Wednesday* — the campus runs Wednesday's schedule, so this TR section does *not* meet that day.

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Sections 1 & 2

Weekly Quiz Schedule

Weekly quizzes exist mainly to get you ready for the Celebrations of Knowledge — treat each one as a low-stakes rehearsal. Some will be given on paper near the end of class at our last meeting of the week (**Wednesday** for Section 1, **Thursday** for Section 2); others may be assigned to be completed outside of class. I will always say which in advance, so the dates below are the planned schedule. There is no weekly quiz during a week containing a Celebration of Knowledge. If you miss one, or wish to retake it, you may do so in student hours.

Quiz	**Sec. 1 (W)**	**Sec. 2 (R)**	**Material Covered**
WQ1	Sep 2	Sep 3	1.1 – 1.4
WQ2	Sep 9	Sep 10	2.1 – 2.2
WQ3	Sep 16	Sep 17	2.3 – 2.7
No quiz — Celebration of Knowledge 1			
WQ4	Oct 7	Oct 8	3.1 – 3.5, 4.1 – 4.6
WQ5	Oct 14	Oct 15	5.1 – 5.3, 6.1 – 6.2
WQ6	Oct 21	Oct 22	7.1 – 7.3
No quiz — Celebration of Knowledge 2			
WQ7	Nov 11	Nov 12	8.1 – 8.3, 9.1 – 9.5, 10.1 – 10.4
WQ8	Nov 18	Nov 19	11.1 – 11.6, 12.1 – 12.4
No quiz — Celebration of Knowledge 3			

Note: Because Labor Day falls on a Monday, Section 1 is one lesson behind Section 2 during the second week of September. Quiz coverage is set by whichever section is further behind, so WQ2 covers only 2.1–2.2 and WQ3 picks up 2.3–2.7.

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Sections 1 & 2

In the Wild Schedule

The "In the Wild" assignments are worth 10% of your grade in total. Everything below is due at **11:59 PM** on the date listed. Assignments 1–3 share a single due date for both sections.

#	Assignment	Weight	Sec. 1	Sec. 2
1	The Most Interesting Study Contest	2%	Fri, Sept. 18	
2	Probability Models in the Wild	1.5%	Fri, Oct. 16	
3	Error Bars in the Wild	1.5%	Fri, Nov. 13	
4	Your Own Hypothesis Test — research question	5%	Mon, Sept. 28	
	worksheet and poster		Mon, Dec. 7	Mon, Nov. 30
	presentation (in class)		Tue, Dec. 8	Thu, Dec. 3
5	Statistical Malpractice *(extra credit)*	+1%	any time, through Dec. 8	

Note: Each due date falls outside all three Celebration of Knowledge windows. Section 2's poster is due a week earlier than Section 1's because Section 2 presents on Dec. 3, the last day of the Celebration 3 window.

AI was used in the development and editing of this document.