

# Math 520 Graduate Algebra: Galois Theory

## Fall 2025 Schedule

August 2025							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
17	18	19	20	21	22	23	
24	25	26 First Day of Class Introduction and Expectations  What is Galois Theory?	27	28 13.1 Basic Theory of Field Extensions	29	30	
31							

September 2025						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 <b>Labor Day</b>	2 13.1 Basic Theory of Field Extensions	3 Homework 0 Due at 11:59pm	4 13.1 Basic Theory of Field Extensions	5	6
7 <b>Last Day of Add/Drop Period</b>	8	9 13.2 Algebraic Extensions	10 Homework 1 Due at 11:59pm	11 13.2 Algebraic Extensions	12	13
14	15	16 13.3 Classical Straightedge and Compass Constructions	17 Homework 2 Due at 11:59pm	18 13.4 Splitting Fields and Algebraic Closures	19	20
21 <b>Last Day to Drop with No Academic Record</b>	22	23 13.4 Splitting Fields and Algebraic Closures	24 Homework 3 Due at 11:59pm	25 Math Colloquium 13.4 Splitting Fields and Algebraic Closures	26	27
28	29	30 13.5 Separable and Inseparable Extensions				

◀ Aug 2025

Oct 2025 ▶

October 2025							◀ Sep 2025	Nov 2025 ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
			1 Homework 4 Due at 11:59pm	2 <b>Exam 1</b>	3	4		
5	6	7 13.6 Cyclotomic Polynomials and Extensions	8 Homework 5 Due at 11:59pm	9 <u>Math Colloquium</u> 13.6 Cyclotomic Polynomials and Extensions	10	11		
12	13	14 14.1 Basic Definitions of Galois Theory	15 Homework 6 Due at 11:59pm	16 <u>Math Colloquium</u> 14.1 Basic Definitions of Galois Theory	17	18		
19	20	21 14.1 Basic Definitions of Galois Theory	22 Homework 7 Due at 11:59pm	23 <u>Math Colloquium</u> 14.1 Basic Definitions of Galois Theory	24	25		
26	27	28 14.2 The Fundamental Theorem of Galois Theory	29 Homework 8 Due at 11:59pm	30 14.2 The Fundamental Theorem of Galois Theory	31 <b>Halloween</b>			

November 2025							Dec 2025 ►
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
						1 Día de los Muertos	
2	3	4 14.2 The Fundamental Theorem of Galois Theory	5 Homework 9 Due at 11:59pm	6 Math Colloquium <b>Exam 2</b>	7	8	
9	10	11 Veterans Day	12 Homework 10 Due at 11:59pm	13 14.2 The Fundamental Theorem of Galois Theory	14	15	
16	17	18 14.3 Finite Fields 14.4 Composite Extensions and Simple Extensions (Artin's Theorem)	19 Homework 11 Due at 11:59pm	20 Math Colloquium 14.5 Cyclotomic Extensions and Abelian Extensions over $\mathbb{Q}$	21	22	
23	24	25 14.7 Solvable and Radical Extensions: Insolvability of the Quintic	26 Homework 12 Due at 11:59pm	27 Thanksgiving Holiday	28 Thanksgiving Holiday	29	
30							

December 2025							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
	1	2 14.7 Solvable and Radical Extensions: Insolvability of the Quintic	3	4 Last Day of Class 14.5 Cyclotomic Extensions and Abelian Extensions over $\mathbb{Q}$ + OTHER TOPICS	5	6	
7 Homework 13 Due at 11:59pm	8	9	10	11 Final Exam 6:15PM Commons 206	12	13	
14	15	16	17	18 Grades Due	19	20	