

# Math 520 Graduate Algebra: Galois Theory Fall 2025 Schedule

August 2025						
◀ Jul 2025						Sep 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						

◀ Aug 2025

## September 2025

Oct 2025 ▶

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	<b>1</b> Labor Day	<b>2</b> 13.1 Basic Theory of Field Extensions	<b>3</b> Homework 0 Due at 11:59pm	<b>4</b> 13.1 Basic Theory of Field Extensions	<b>5</b>	<b>6</b>
<b>7</b> Last Day of Add/Drop Period	<b>8</b>	<b>9</b> 13.2 Algebraic Extensions	<b>10</b> Homework 1 Due at 11:59pm	<b>11</b> 13.2 Algebraic Extensions	<b>12</b>	<b>13</b>
<b>14</b>	<b>15</b>	<b>16</b> 13.3 Classical Straightedge and Compass Constructions	<b>17</b> Homework 2 Due at 11:59pm	<b>18</b> 13.4 Splitting Fields and Algebraic Closures	<b>19</b>	<b>20</b>
<b>21</b> Last Day to Drop with No Academic Record	<b>22</b>	<b>23</b> 13.4 Splitting Fields and Algebraic Closures	<b>24</b> Homework 3 Due at 11:59pm	<b>25</b> <u>Math Colloquium</u> 13.5 Separable and Inseparable Extensions	<b>26</b>	<b>27</b>
<b>28</b>	<b>29</b>	<b>30</b> 13.6 Cyclotomic Polynomials and Extensions				

◀ Sep 2025

## October 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> 14.1 Basic Definitions of Galois Theory	10	11
12	13	14 14.1 Basic Definitions of Galois Theory	15 Homework 6 Due at 11:59pm	16 <u>Math Colloquium</u> 14.2 The Fundamental Theorem of Galois Theory	17	18
19	20	21 14.2 The Fundamental Theorem of Galois Theory	22 Homework 7 Due at 11:59pm	23 <u>Math Colloquium</u> 14.3 Finite Fields	24	25
26	27	28 14.3 Finite Fields	29 Homework 8 Due at 11:59pm	30 14.4 Composite Extensions and Simple Extensions	31 <b>Halloween</b>	

◀ Oct 2025

## November 2025

Dec 2025 ▶

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1 <b>Día de los Muertos</b>
2	3	4 14.4 Composite Extensions and Simple Extensions	5 Homework 9 Due at 11:59pm	6 <u>Math Colloquium</u> <b>Exam 2</b>	7	8
9	10	11 <b>Veterans Day</b>	12 Homework 10 Due at 11:59pm	13 14.5 Cyclotomic Extensions and Abelian Extensions over $\mathbb{Q}$	14	15
16	17	18 14.5 Cyclotomic Extensions and Abelian Extensions over $\mathbb{Q}$	19 Homework 11 Due at 11:59pm	20 <u>Math Colloquium</u> 14.6 Galois Groups of Polynomials	21	22
23	24	25 14.6 Galois Groups of Polynomials	26 Homework 12 Due at 11:59pm	27 <b>Thanksgiving Holiday</b>	28 <b>Thanksgiving Holiday</b>	29
30						

<div> <div>◀ Nov 2025</div> <div>December 2025</div> <div>Jan 2026 ▶</div> </div>						
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 14.7 Solvable and Radical Extensions: Insolvability of the Quintic	5	6
7 Homework 13 Due at 11:59pm	8 Exam Week	9 Exam Week	10 Exam Week	11 Exam Week	12 Exam Week	13
14	15	16	17	18 Grades Due	19	20
21	22	23	24	25	26	27
28	29	30	31			

