## Math146 - Abstract Algebra II (Galois Theory) - AY2024-2025 spring

## George McNinch

## **Course Calendar**

Date	DOW	Desc	Seq	Week	Details
01/15	Wed	Meeting	Office hours 0	1	**13:30-14:30 JCC 559
01/15	Wed	Lecture	1	1	Commutative Rings and Fields
01/16	Thu	Meeting	Office hours 0	1	**14:30-15:30 JCC 559
01/17	Fri	Assignment		1	PS01
01/20	Mon	Tufts		2	No classes: MLK Day
01/22	Wed	Meeting	Office hours 1	2	**13:30-14:30 JCC 559
01/22	Wed	Lecture	2	2	Polynomial Rings
01/22	Wed	Tufts		2	Academic Date: Last day to add a course
01/23	Thu	Meeting	Office hours 1	2	**14:30-15:30 JCC 559
01/24	Fri	Assignment		2	PS02
01/27	Mon	Lecture	3	3	Euclidean algorithm
01/29	Wed	Meeting	Office hours 2	3	**13:30-14:30 JCC 559
01/29	Wed	Lecture	4	3	Fields of Fractions & Quotient Rings
01/30	Thu	Meeting	Office hours 2	3	**14:30-15:30 JCC 559
01/31	Fri	Assignment		3	PS03
02/03	Mon	Lecture	5	4	Gauss Lemma
02/05	Wed	Meeting	Office hours 3	4	**13:30-14:30 JCC 559
02/05	Wed	Lecture	6	4	Eisenstein's Criterion
)2/06	Thu	Meeting	Office hours 3	4	**14:30-15:30 JCC 559
)2/07	Fri	Assignment	omee nours s	4	PS04
02/10	Mon	Lecture	7	5	Fields and field extensions; linear algebra
02/12	Wed	Meeting	Office hours 4	5	**13:30-14:30 JCC 559
02/12	Wed	Lecture	8	5	Simple extensions
02/13	Thu	Meeting	Office hours 4	5	**14:30-15:30 JCC 559
02/13	Fri	Assignment	Office flours 1	5	PS05
02/17	Mon	Tufts		6	No classes: Presidents' Day
02/19	Wed	Meeting	Office hours 5	6	**13:30-14:30 JCC 559
02/19	Wed	Lecture	9	6	midterm 1
02/19	Wed	Exam		6	midterm 1
02/19	Wed	Tufts		6	Academic Date: Last day to drop a course without record
02/20	Thu	Meeting	Office hours 5	6	**14:30-15:30 JCC 559
02/20	Thu	Lecture	10	6	Degree of extensions and the Tower Law
02/20	Thu	Tufts	10	6	Tufts: Monday schedule
02/21	Fri	Assignment		6	PS06
)2/24	Mon	Lecture	11	7	Primitive element theorem
			Office hours 6	_	
)2/26 )2/26	Wed Wed	Meeting		7	**13:30-14:30 JCC 559
		Lecture	Office hours 6	7	Ruler & Compass constructions **14:30-15:30 JCC 559
02/27	Thu	Meeting	Office hours 6	7	
02/28	Fri Mon	Assignment	12	7	PS07  Pulse & Compass & impossibility proofs
03/03	Mon	Lecture	13	8	Ruler & Compass & impossibility proofs
03/05	Wed	Meeting	Office hours 7	8	**13:30-14:30 JCC 559
03/05	Wed	Lecture	14	8	The Galois Group and some of its uses

Oxfoor	Date	DOW	Desc	Seq	Week	Details
Oxforce   Oxfo	03/06	Thu	Meeting	Office hours 7	8	**14:30-15:30 JCC 559
03/12   Wed   Lecture   16	03/07	Fri	Assignment		8	PS08
1931   Wed   Lecture   16   9   Normal field extensions   1931   Thu   Meeting   Office hours   19   PS09   PS09	03/10	Mon	Lecture	15	9	Splitting fields
Ost   Ost	03/12	Wed	Meeting	Office hours 8	9	**13:30-14:30 JCC 559
9	03/12	Wed	Lecture	16	9	Normal field extensions
1931   Sat	03/13	Thu	Meeting	Office hours 8	9	**14:30-15:30 JCC 559
O3/16   Sun   Tufts   9   No classes: Spring Break   O3/10   Nor   Tufts   10   No classes: Spring Break   O3/10   Nor   Tufts   10   No classes: Spring Break   O3/20   Tufts   10   No classes: Spring Break   O3/22   Sat   Tufts   11   The Galois Correspondence   Sat   O3/22   Sat   O3/2	03/14	Fri	Assignment		9	PS09
O3/17	03/15	Sat	-		9	No classes: Spring Break
10	03/16	Sun	Tufts		9	
O3/19	03/17	Mon	Tufts		10	No classes: Spring Break
1	03/18	Tue	Tufts		10	
10	03/19	Wed	Tufts		10	
103/21   Fri	03/20	Thu	Tufts		10	
03/21         Fri         Tufts         10         No classes: Spring Break           03/22         Sat         Tufts         10         No classes: Spring Break           03/23         Sun         Tufts         10         No classes: Spring Break           03/24         Mon         Lecture         17         11         Separable field extensions           03/26         Wed         Meeting         Office hours 9         11         **13:30-14:30 JCC 559           03/27         Thu         Meeting         Office hours 9         11         The Galois Correspondence           03/28         Fri         Assignment         11         midterm 2           03/31         Mon         Lecture         19         12         midterm 2           03/31         Mon         Exam         12         midterm 2           04/02         Wed         Lecture         20         12         Linear independence of monomorphisms           04/02         Wed         Lecture         20         12         Linear independence of monomorphisms           04/02         Wed         Lecture         20         12         Linear independence of monomorphisms           04/02         Wed         Tufts         12		Fri				
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10			Tufts			
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04/14         Mon         Lecture         23         14         Examples of Galois Groups           04/16         Wed         Meeting         Office hours 12         14         **13:30-14:30 JCC 559           04/16         Wed         Lecture         24         14         Finite Fields           04/17         Thu         Meeting         Office hours 12         14         **14:30-15:30 JCC 559           04/18         Fri         Assignment         15         No classes: Patriots' Day           04/21         Mon         Tufts         15         No classes: Patriots' Day           04/23         Wed         Meeting         Office hours 13         15         **13:30-14:30 JCC 559           04/23         Wed         Lecture         25         15         Transcendence degree; symmetric polynomials           04/24         Thu         Meeting         Office hours 13         15         **14:30-15:30 JCC 559           04/25         Fri         Assignment         15         **14:30-15:30 JCC 559           04/25         Fri         Assignment         15           04/29         Tue         Tufts         16         No classes: Makeup Day (no classes)           04/29         Tue         Tufts			_	Omee nours 11		11.50 15.50 000 557
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05/08	Thu	Tufts		17	Academic Date: Final Exam Period
05/09	Fri	Exam		17	final exam
05/09	Fri	Tufts		17	Academic Date: Final Exam Period