

MATH 500 Graduate Algebra. Fall 2019  
 Classroom: 31 Psychology. Held MWF 10:00-10:50am  
 Instructor: Dr. Walton. notlaw@illinois.edu

[final edit: December 6, 2019]

DATE	SECTION of Dummit & Foote 3ed (subject to change)	HOMEWORK Worth 40% of course grade lowest two HWs will be dropped <b>**due at beginning of class (10:10am), no late assignments accepted**</b>	EXAM Midterm 25% & Final 35% of course grade	Lecture Notes and Misc Notes (a good portion of these lecture notes were constructed from Ed Letzter's Math 8011 lecture notes at Temple Univ.)
M Aug 26	Intro to course, 1.1 — 1.5			<a href="#">Lecture Notes</a>
W Aug 28	1.6, 2.1			<a href="#">Lecture Notes</a> [containing historical notes, <a href="#">Reference</a> ]
F Aug 30	1.7, 2.2			<a href="#">Lecture Notes</a>
W Sept 4	2.3, 2.4, 2.5	<a href="#">Homework 1</a> due		<a href="#">Lecture Notes</a>
F Sept 6	3.1			<a href="#">Lecture Notes</a>
M Sept 9	3.2, 3.3			<a href="#">Lecture Notes</a>
W Sept 11	3.4	<a href="#">Homework 2</a> due		<a href="#">Lecture Notes</a>
F Sept 13	3.5, 4.6			<a href="#">Lecture Notes</a>
M Sept 16	4.1, 4.2, 4.3 (start)			<a href="#">Lecture Notes</a>
W Sept 18	4.3 (finish), 4.4 (start)	<a href="#">Homework 3</a> due		<a href="#">Lecture Notes</a>
F Sept 20	4.4 (end), 4.5 (start)			<a href="#">Lecture Notes</a>
M Sept 23	4.5 (end)			<a href="#">Lecture Notes</a>
W Sept 25	5.1, 5.2 (start)	<a href="#">Homework 4</a> due		<a href="#">Lecture Notes</a>
F Sept 27	5.2 (end)			<a href="#">Lecture Notes</a>
M Sept 30	5.5			<a href="#">Lecture Notes</a> (addendum)
W Oct 2	6.1	<a href="#">Homework 5</a> due		<a href="#">Lecture Notes</a>
F Oct 4	6.3			<a href="#">Lecture Notes</a>
M Oct 7	7.1, 7.2			<a href="#">Lecture Notes</a> [See <a href="#">Sec 2</a> of <a href="#">Ref</a> about the quaternions]
W Oct 9	7.3	<a href="#">Homework 6</a> due		<a href="#">Lecture Notes</a>
F Oct 11	7.4			<a href="#">Lecture Notes</a>
M Oct 14	7.5, 7.6			Out of town on Oct 13-15: <a href="#">Lecture video</a> and <a href="#">Lecture Notes</a>
W Oct 16			MIDTERM (Material through Oct 9th lecture)	
F Oct 18	8.1, 8.2 (start)			<a href="#">Lecture Notes</a>
M Oct 21	8.2 (finish), 8.3			<a href="#">Lecture Notes</a>
W Oct 23	9.1, 9.2	<a href="#">Homework 7</a> due		<a href="#">Lecture Notes</a>
F Oct 25	9.3			<a href="#">Lecture Notes</a>
M Oct 28	9.4, 9.5			<a href="#">Lecture Notes</a>
W Oct 30	10.1	<a href="#">Homework 8</a> due		Out of town on Oct 29-30: <a href="#">Lecture video</a> and <a href="#">Lecture Notes</a>
F Nov 1	10.2			<a href="#">Lecture Notes</a>
M Nov 4	10.3, 10.4 (start)			<a href="#">Lecture Notes</a>
W Nov 6	10.4 (finish)	<a href="#">Homework 9</a> due		<a href="#">Lecture Notes</a>
F Nov 8	12.1			<a href="#">Lecture Notes</a>
M Nov 11	12.2, 12.3			<a href="#">Lecture Notes</a>
W Nov 13	13.1	<a href="#">Homework 10</a> due		<a href="#">Lecture Notes</a>
F Nov 15	13.2			<a href="#">Lecture Notes</a>
M Nov 18	13.4			<a href="#">Lecture Notes</a>
W Nov 20	13.5, 13.6	<a href="#">Homework 11</a> due		<a href="#">Lecture Notes</a>
F Nov 22	14.1			<a href="#">Lecture Notes</a>
M Dec 2	14.2			<a href="#">Lecture Notes</a>
W Dec 4	14.3, 14.4	<a href="#">Homework 12</a> due		<a href="#">Lecture Notes</a>
F Dec 6	14.5			<a href="#">Lecture Notes</a>
M Dec 9	Review Day. Q&A (in office)- Will not answer questions about what will be on exam or on exam format. Questions about material are welcomed			
W Dec 11	Review Day. Q&A (in office)- Will not answer questions about what will be on exam or on exam format. Questions about material are welcomed			
F Dec 13 7 - 10pm Location: 31 Psychology Building			FINAL (Material through Dec 6th lecture)	