

Discrete Math  
Ogrodnik  
Second Semester Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
	1/29	1/30	1/31	2/1
	Sum & Product Rules of Counting (Section 4.1 & 4.2)	<b>No School Too Cold</b>	<b>No School Too Cold</b>	Sum & Product Notation (Section 4.3)
2/4	2/5	2/6	2/7	2/8
More Counting Rules (Section 4.3)	More Counting Rules (Section 4.3)	Permutations & Combinations (Section 4.4)	Permutations & Combinations (Section 4.4)	<b>Quiz 4.1 – 4.3</b> Combinatorial Identities (Section 4.5)
2/11	2/12	2/13	2/14	
Binomial Theorem (Section 4.6)	Binomial Theorem (Section 4.6)	Ball & Urn Problems (Section 4.7)	<b>Quiz 4.4 – 4.6</b> Ball and Urn Problems (Section 4.7)	Review
2/18	2/19	2/20	2/21	2/22
<b>No School Presidents' Day</b>	Review	<b>No Class Testing</b>	<b>Test</b>	<b>No Class Institute Day</b>

**Suggested Practice:**

Section	Problems
4.2	#2-9, 18, 19, 21
4.3	#1-3, 7, 8, 10b, 11-14, 28, 31, 33, 35, 37, 38
4.4	#2-4, 6-8, 10, 11, 15, 18-20
4.5	#1-4, 6, 10, 14, 19
4.6	#1, 2ab, 3, 4, 9, 15, 16, 18ab
4.7	#3-5, 7, 8, 10-12, 14-16, 22-24

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Monday	Tuesday	Wednesday	Thursday	Friday
2/25	2/26	2/27	2/28	3/1
	Conditional Probability (Section 6.3)	Conditional Probability (Section 6.3)	Conditional Probability (Section 6.3)	<b>No Class Early Dismissal</b>
3/4	3/5	3/6	3/7	3/8
Distributions (Section 6.4)	Distributions (Section 6.4)	Expected Value (Section 6.5)	<b>Quiz 6.3 – 6.4</b>	Recursive Methods (Section 6.9)
3/11	3/12	3/13	3/14	
Recursive Methods (Section 6.9)	Recursive Methods Experimental Probability & Simulations (Section 6.9)	Review	<b>Test</b>	

**Suggested Practice:**

Section	Problems
6.2	p.525 #5, 20, 21
6.3	p.534 #1, 4, 7, 13, 14, 18, 21, 23, 24, 40
6.4	p.552 #1-4, 7-9, 20, 22, 24
6.5	p.565 #8, 10ab, 12, 14, 17
6.9	p.602 #1, 2, 3, 5, 9

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Monday	Tuesday	Wednesday	Thursday	Friday
				3/15
				Game Theory Introduction & Project
3/18	3/19	3/20	3/21	3/22
Game Theory Introduction & Project	Game Theory Project	Game Theory Project	Game Theory Project	Tournament

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Monday	Tuesday	Wednesday	Thursday	Friday
4/1	4/2	4/3	4/4	4/5
Strong Induction (Section 2.3)	Strong Induction (Section 2.3)	Strong Induction (Section 2.3)	Review 2.3	<b>Quiz 2.3</b>
4/8	4/9	4/10	4/11	4/12
Proof by Induction (Section 2.2)	<b>No Class Testing</b>	Proof by Induction Modular Arithmetic (Section 2.2)	Proof by Induction (Section 2.2)	Proof by Induction (Section 2.2)
4/15	4/16	4/17	4/18	4/19
Deriving Formulas (Section 2.6)	Deriving Formulas (Section 2.6)	Deriving Formulas (Section 2.6)	Induction with Recursive Formulas (Section 2.6)	<b>No School Good Friday</b>
4/22	4/23	4/24	4/25	
Induction with Recursive Formulas (Section 2.6)	Review	Review	<b>Test</b>	

**Suggested Practice:**

Section	Problems
2.2	p.148 #1, 3, 5, 6, 10, 11, 17, 18, 20, 24ac, 25, 26
2.3	p.156 #1ac, 9, 11, 18, 20a
2.6	p.190 #4, 7, 27acd, 28

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Monday	Tuesday	Wednesday	Thursday	Friday
5/6	5/7	5/8	5/9	5/10
Traveling Salesperson Solutions	Traveling Salesperson Solutions	Traveling Salesperson Solutions	Traveling Salesperson Shortest Path Algorithms	Traveling Salesperson Shortest Path Algorithms
5/13	5/14	5/15	5/16	5/17
Traveling Salesperson Hamilton & Euler Paths	Traveling Salesperson Hamilton & Euler Paths	Minimum Cost Spanning Trees Prim's Algorithm	<b>Traveling Salesperson Quiz</b>	Minimum Cost Spanning Trees Prim's Algorithm
5/20	5/21	5/22	5/23	5/24
Minimum Cost Spanning Trees Breadth & Depth First Searches	Minimum Cost Spanning Trees Breadth & Depth First Searches	Coloring Graphs & Scheduling	Coloring Graphs & Scheduling	De Bruijn Graphs
5/27	5/28	5/29	5/30	
<b>No School Memorial Day</b>	Review	Review	<b>Test</b>	

**Suggested Practice:**

Section	Problems
3.1	Vocab Lists & p.233 #2, 4, 9, 10, 13-18, 23, 24, 27, 28, 32, 33
3.2	p.247 #1, 2, 3a-d, 7-10
3.3	p.262 #1, 3, 4, 5, 9, 10, 32, 34
3.4	p.275 #1-4, 7, 23, 24 & Dijkstra's Algorithm Worksheet
3.5	Worksheet
3.6	p.292 #1-6, 8, 11-14, 30, 34
3.7	p.306 #2b-c, 7, 23, 24, 27, 30, 31