

## MATH 103 – Mathematical Explorations

<b>Week</b>	<b>Day</b>	<b>Ch.</b>	<b>Topics</b>
<b>1/22-1/26</b>	1	1	Introduction
	2	1	Fun and Games
	3	1	Fun and Games
<b>1/29 – 2/2</b>	4	2	Number Contemplation, Counting, Numerical Patterns
	5	2	Numerical Patterns, Prime cuts
	6	2	Prime cuts
<b>2/5 – 2/9</b>	7	2	Crazy Clocks and Checking out bars
	8	2	Public Secret Codes
	9	2	The Irrational side of numbers
<b>2/12 – 2/16</b>	10	3	Infinity, Beyond Numbers
	11	3	Comparing the Infinite
	12	3	The Missing Number
<b>2/19 – 2/23</b>	13	3	An Infinite Galaxy of Infinities
	14	3	Infinite within geometry
	15	4	Geometric Gems, Pythagoras
<b>2/26 – 3/2</b>	16	4	A view of an art gallery
	17	4	The sexiest rectangle
	18	4	Tiling the plane
<b>3/5 – 3/9</b>	19	4	Platonic solids
	20	4	Shape of reality, the fourth dimension
	21	5	Contortions of Space, Rubber sheet geometry
<b>3/12 – 3/16</b>	22	5	Mobius band, Klein bottle
	23	5	Edges, sides, vertices
	24	5	Knots and links
<b>3/19 – 3/23</b>			<b>SPRING BREAK</b>
<b>3/26 – 3/30</b>	25	6	Chaos and Fractals, The dynamics of change
	26	6	Fractals
	27	6	Imaginary fractals
<b>4/2 – 4/6</b>	28	6	Predetermined chaos
	29	6	Between dimensions
	30	7	Taming Uncertainty, Chance surprises
<b>4/9 – 4/13</b>	31	7	How to measure uncertainty
	32	7	Random thoughts
	33	7	Systematic counting
<b>4/16 – 4/20</b>	34	7	Power and pitfalls of statistics
	35	7	Describing data
	36	7	Making inferences from data
<b>4/23 – 4/27</b>	37	8	Deciding Wisely, Great Expectations
	38	8	Risk
	39	8	Money Matters
<b>4/30 – 5/4</b>	40	8	Elections
	41	8	Slicing up the resources
	42		Other topics