The following recommended readings are from **On Food and Cooking by Harold McGee**.

Each section is given both by page number, and, for the benefit of students with an e-textbook, by a brief citation from the beginning and end of the assigned chapter.

Week	Topic	Readings by page	Readings by citation for e-textboks
1	Components	<ol> <li>Introduction and History: p.1-7</li> <li>The Four Basic Food Molecules, p.792-809</li> <li>Chemistry Primer: p.811-818</li> </ol>	"This is the revised and expanded"to"source of interest, ideas, and delight"      "This chapter describes the four chemical protagonists"to"gradual heating to denaturing temperatures"      "Cooking is applied chemistry"to"beer are all foams"
2	Energy Lemnerature	1) Milk Rigiogy and Chemistry in 16-711	1. "the egg is one"to"cooked in a moderate oven" 2. "milk is food for the newborn"to"opaque cartons prevent it"
3		•	"Ice cream is a dish that"to"the water is in liquid form"     "Fats and oils are members"to"blocking starch retrogradation"
4	Flasticity	1. Candy (p. 680-87) 2. Gluten (p. 521-525)	<ol> <li>"All sugar candies, whether brittle or creamy"to slower to register on the tongue"</li> <li>"wheat flour is strange"to forces between chains</li> </ol>
	EXTRA: Chocolate!	1. Chocolate: p. 694-712	1. "Chocolate is one of our most"to"that is powerfully appealing"
5	Gelation, Diffusion & Spherification	1. Gelatin, Other Protein Thickeners, Carbohydrate gels: (p. 597-610)	1. "if we gently heat"to"release their flavor well"

6	Heat Transfer		
7	Viscosity & Polymers	<ol> <li>Sauces and gelation agents: p. 597-616,</li> <li>Polysaccharides (p .804-805)</li> </ol>	"If we gently heat"to"labels as modified starch"     "Polysaccharides which include"to"bacteria in industrial fermentation"
8	Emulsions & Foams	1. Emulsions: p. 625-639	"Sauces thickened with droplets"to"rather than over direct stovetop heat"
9	Baking	1. Bread (p. 521-546) 2. Cakes (p. 554-560) 3. Cookies (p. 568-571) 4. Seeds (p.451-468)	<ol> <li>"Wheat flour is strange"to"the dough during baking"</li> <li>"batter breads and muffins"to"moisture-retaining sugar"</li> <li>"common cookies are simple"to"microbes, and keep well"</li> <li>"Seeds are our most"to"eaten fresh or dried for keeping"</li> </ol>
10	Fermentation & Enzymatic Reactions	1. Milk fermentation (p. 44-50) 2. Wine and vinegar (p. 713-16, p. 771-73) 3. Fermenting vegetables (291-95)	1. "one of the remarkable qualities"to"sharpness typical of yogurt" 2. "Like all good foods"to"than it was when fresh"; "vinegar is alcohol's fate"to"ferment their wine straight" 3. "Fruits and vegetables can be preserved"to"gives them a slippery quality"
	EXTRA: Sustainability!		