Day	Date	Week	Topic	Lecture Content	Lab	Due dates
M	7-Oct			Visiting Chefs: Ferran Adria, Harold McGee		
Т	8-Oct			1. Welcome and Introduction		
W	9-Oct		Introduction and Food	2.History of Science of Cooking	Precision of	
Th	10-Oct	1	Components	3. Fats, Carbohydrates and Proteins	Cooking	
F	11-Oct			4. Moles and Chocolate Chip Cookies	Instruments	
S	12-Oct			5. pH		
S	13-Oct			6. Why Equations?		
М	14-Oct			Visiting Chef: Dave Arnold		
Т	15-Oct			1. Introduction to Energy, Temperature, and Heat	At Home Sous-	
W	16-Oct		Francis Tamananahina	2. Wood, Ovens, and Heat		
Th	17-Oct	2	Energy, Temperature	3. Q=mcpdeltaT	Vide Eggs	
F	18-Oct		and Heat	4. Drinks!	or Ricotta Cheese	
S	19-Oct			5. Specific Heat and 4-4-9 Rule		
S	20-Oct			6. Latent Heat		
М	21-Oct			Visiting Chef: Joan Roca		
Т	22-Oct		Phase Transitions	1. Introduction to Phase Transitions		
W	23-Oct			2. Phase Diagrams		
Th	24-Oct	3		3. Cooking SousVvide and with Rotovaps	Ice Cream	
F	25-Oct			4. Phase Transitions of Fats		
S	26-Oct			5. A SuperCool Dessert!		
S	27-Oct			6. Solubility and Freezing Point Depression		
М	28-Oct			Visiting Chef: Bill Yosses		
Т	29-Oct			1. What is Elasticity?		
W	30-Oct			2. Microscopic Origins of Elasticity	Elasticity of	
Th	31-Oct	4	4 Elasticity	3. Applications to Steak and Strudel	Foods	
F	1-Nov			4. Candy Making and Crystallization	roous	
S	2-Nov			5. Candy Apple, Sorbet, and Tuille		
S	3-Nov					
				Visiting Chef: Enric Rovira		
			EXTRA: Chocolate!	1. Chocolate Tempering		
				2. Phases of Chocolate		

N.4	4-Nov	I		Visiting Chaft losá András		
M	4-NOV 5-Nov			Visiting Chef: José Andrés 1. Intro to Gelation	4	
					Diffi in	
W	6-Nov	_	I GARISTIAN LIITTIIGIAN X	2. Gels made with Proteins and Hydrocolloids	Diffusion in	
Th	7-Nov	5	Spherification	3. Gelling Agents in the Kitchen	Eggs and	
F	8-Nov			4. Spherification, Random Walk	Ceviche	
S	9-Nov			5. Osmosis		
S	10-Nov					
M	11-Nov			Visiting Chef: Carme Ruscalleda	_	
Т	12-Nov			1. Intro to Heat Transfer		
W	13-Nov			2. Browning Reactions	Molten	
Th	14-Nov	6	Heat Transfer	3. Why it's Hard to Cook a Steak	Chocolate Cake	
F	15-Nov			4. How Professionals Cook Steak	Chocolate Cake	
S	16-Nov			5. Microscopic and Macroscopic Perspective		
S	17-Nov			6. Rules of Thumb		
М	18-Nov			Visiting Chef: Carles Tejedor		
Т	19-Nov			1. What is Viscosity?		Lab 1, HW 1 due
W			l l	2. Culinary Examples	Co so als s	due date moved
Th		7		3. Thickeners and Polymers	Candy Essentials	Dec 3rd
F	22-Nov			4. Viscoelasticity	Essentials	
S	23-Nov			5. Glasses		
S	24-Nov					
М	25-Nov			Visiting Chef: Nandu Jubany		
Т	26-Nov			1. What are emulsions?	1	Lab 2, HW 2 due
W	27-Nov			2. Surface Energy and LaPlace pressure	Mayonnaise	due date moved
Th	28-Nov	8		3. How Emulsions Fail	and Culinary	to Dec10th
F	29-Nov			4. Foams	Foams	
S	30-Nov			5. Colloids		
S	1-Dec			5. Colloids		
M	2-Dec			Visiting Chef: Joanne Chang		
T	3-Dec			Gas Production from Baking Soda	†	Lab 3, HW 3 due
l w	4-Dec			2. Maillard Reactions		due date moved
Th	5-Dec	9	Baking	3. Gas Production from Yeast	Final Projects	to Dec 17th
'''	6-Dec		Daning	4. Baking Phase Diagrams	Tillar Fojects	
S	7-Dec			The Daking I have Diagrams		
S	8-Dec					
_ 3	o-pec	l				

M T W Th F S	9-Dec 10-Dec 11-Dec 12-Dec 13-Dec 14-Dec 15-Dec	10	Fermentation & Enzymatic Reactions	Visiting Chefs: David Chang, Wylie Dufresne 1. Exponential growth rate of bacteria and yeast 2. Foods and bugs 3. Enzymatic reactions 4. Food enzymes	Final Projects	Lab 4, HW 4 due due date moved to Jan 7th
			EXTRA: Sustainability!	Visiting Chef: Dan Barber		
					TUE DEC 24th	break!
					TUE DEC 31st	break!
					TUE JAN 7th	Lab 4, HW 4 due
					TUE JAN 14th	Lab 5, HW 5 due
					TUE JAN 21st	Lab 6, HW 6 due
					TUE JAN 28th	Lab 7, HW 7 due
					TUE FEB 4th	Lab 8, HW 8 due
					TUE FEB 11th	HW 9 due
					TUE FEB 18th	HW 10 due
					March 15th, 2014	Course Closes Final Projects due