**Class Schedule 2nd semester 2016**

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| **Lecture** | **Date** | **Subject** | **Reading**  **(Sections)** | **Quiz** |
| **1** | **August 4** | Molecules in our bodies and foods  The size of things we eat  A good look at food | **/** | **/** |
| **2** | **11** | Edible structures from nature  Processing of edible structures  Cooking under the microscope | **1 - 4** | **1** |
| **3** | **18** | Foods as engineering materials  From crispy to soggy | **5 - 8** | **2** |
| **4** | **25** | An introduction to gastronomy  Desserts  **Proposal of Project Ideas; presentation of video by VM** | **24, 25, 28** | **3** |
| **5** | **September 1** | Preserving food structures  Heating: energizing molecules | **9, 10** | **4** |
| **6** | **8** | Diffusion: molecules on the move  Measuring properties in the lab | **11, 12** | **5** |
| **7** | **15** | Gels: chewy water  Emulsions: mixing the enemies  Foams: structures out of thin air | **13- 15** | **6** |
| **8** | **22** | Extrusion: continuous cooking and shaping  Frying: cooking in a very hot liquid  **Advance on term Project** | **16, 17** | **7** |
| **9** | **29** | Milk and dairy nanotechnology  Our daily bread  Pasta al dente | **18 -20** | **8** |
| **10** | **October 6** | Meat: barbecue at the lab  The aging of foods  Chocolate also blooms | **21 - 23** | **9** |
| **11** | **13** | Chef’s choices and creation  **Talking with a chef** |  | **/** |
| **12** | **20** | Soufflé: an ephemeral structure  Why does popcorn pop?  Designing food structures | **26, 27, 29** | **10** |
| **13** | **27** | Tasting and smelling molecules  Testing foods by pros  **Talking with an expert in sensory evaluation** | **30, 31** | **11** |
| **14** | **November 3** | Digestion: food processing inside our bodies  The gut talks to the brain  **Talking with a neurobiologist** | **32, 33** | **12** |
| **15** | **November 10** | Towards healthy habits  **Talking with an expert nutritionist** | **34** | **13** |
|  | **November 17** | **PRESENTATIONS** |  |  |