Day 1- Tuesday January 17th
9:00AM  Welcome, introductions, overview
Location:  Northwest B141
9:30AM  Lecture on light, florescence, and confocal microscopy
Presenter:  Jennifer Waters
Location:  Northwest B141
12:00PM  Lunch break
Location:  Northwest B127
1:00PM  Light and fluorescence microscopy practice time
Leaders:  Hera Vlamakis and Pascale Beauregard
Location:  Northwest B141 and B139.20
3:30PM  Students begin their own brews
Location:  Northwest B145
4:00PM  Lecture on the beer brewing process (while we continue to brew)
Leaders:  Nick Leiby and Sarah Douglas
Location:  Northwest B145
6:30PM  Lecture by Roberto Kolter
Location:  Harvard Center for the Environment (HUCE) 310
7:15PM  Dinner
Location:  HUCE

Day 2- Wednesday January 18th
9:00AM  Lecture on the industrialization of brewing
Presenter:  Lon Chubiz
Location:  Northwest B141
9:30PM  Confocal microscopy practice time
Leaders:  Dave Smith and Bernhard Götze
Location:  Center for Biological Imaging (HCBI), Biolabs 2052
11:30AM  Lecture on TEM
Presenter:  David Bell
Location:  Northwest B141
12:30PM  Lunch break
Location:  Northwest B127
1:30PM  Lecture on the science of Belgium beers
Presenter:  Nigel Delaney
Location:  Northwest B141
2:15PM  Leave for Harpoon Brewery
3:00PM  Harpoon Brewery tour
Leader:  senior brewer Todd Charbonneau
4:00PM  Harpoon Brewery tasting
Leader:  Aaron Bishop
5:30PM  Dinner
Location:  Legal Test Kitchen (225 Northern Ave., Boston)
Day 3 - Thursday January 19th

9:00AM  Lecture on SEM
Presenter: David Lange
Location: Northwest B141

10:00AM  Break

10:15AM  Lecture on EM sample preparation
Presenter: Carolyn Marks
Location: Northwest B141

11:15AM  EM sample preparation facilities tour
Presenter: Carolyn Marks
Location: CNS

12:30PM  Lunch break
Location: Northwest B127

1:30PM  Lecture on AFM
Presenter: Jiangdong (JD) Deng
Location: Northwest B141

2:30PM  Lecture on GC-MS analysis of beer
Presenter: Will Harcombe
Location: Northwest B141

3:15PM  Lecture on the Microbiology of beer
Presenter: Dipti Nayak
Location: Northwest B141

3:45PM  Lecture by Colleen Cavanaugh
Location: Northwest B141

4:45PM  Leave for Dinner
Location: The Publick House (1648 Beacon St., Brookline)

Day 4 - Friday January 20th

9:00AM-  Group 1: guided SEM time
Group 2: guided TEM time
Group 3: guided AFM time
Leaders: Adam Graham, David Lange, Carolyn Marks, and Jiangdong (JD) Deng
Location: CNS

11:30AM- Lunch Break
Location: LISE 311

12:30AM-  Group 1: guided TEM time
Group 2: guided AFM time
Group 3: guided SEM time
Leaders: Adam Graham, David Lange, Carolyn Marks, and Jiangdong (JD) Deng
Location: CNS

3:00PM- Snack break
Location: LISE 311

3:30PM-  Group 1: guided AFM time
Group 2: guided SEM time
Group 3: guided TEM time
Leaders: Adam Graham, Carolyn Marks, and Jiangdong (JD) Deng
Location: CNS

6:00PM- Concluding dinner and microscopy image contest
Location: HUCE seminar room