

2022 Brewing and Malting Science Course

Sept. 9, 2022 – Oct. 28, 2022

Course Director: Rob McCaig

All times are shown in Central Daylight Time (CDT)

Virtual

Orientation Session (Friday, Sept. 9, 1:00 - 2:00 pm CDT)

Week 1 (September 11 - 16)

Independent Learning:

- Life Sciences for Brewers John Roll, University of Wisconsin, Department of Bacteriology
- Malting Barley: Origins, Production, and Quality -- Ashley McFarland, American Malting Barley Association
- Workplace Health and Safety -- Gary Nicholas, SanTan Brewing Company

Live Zoom Discussion: Friday, Sept 16 (1:00 -4:00 CT), Happy Hour (Optional, 4:00-5:00)

Week 2 (September 17 - 23)

Independent Learning:

- Hop Production *Mike Sutton, Hopsteiner*
- Brewing Overview Steve Presley, Anheuser-Busch (Retired)
- Brewery Water and Adjustment -- Joe Walts, Karben4 Brewing

Live Zoom Discussion: Friday, Sept 23 (1:00 -4:00 pm CDT), Happy Hour (Optional, 4:00-5:00)

Week 3 (September 24 - 30)

Independent Learning:

- Principles of Brewery Cleaning, Sanitizing and CIP -- Dirk Loeffler, Loeffler Hygiene & Safety Solutions
- Design and Operations Considerations for CIP Dirk Loeffler, Loeffler Hygiene & Safety Solutions
- Plant Automation Principles and Automation for Craft -- Martin Lutz, ProLeiT Corp

Live Zoom Discussion: Friday, Sept 30 (1:00 -4:00 CDT), Happy Hour (Optional, 4:00- 5:00)

Week 4 (Oct. 1 - 7)

Independent Learning:

- Sour Beer Production -- Marcio Buffolo, Shades Brewing
- Trends in Brewing: Seltzers/ NA/ Cannabis/ Kombucha/ Hazy Beers -- Rob McCaig, Asahi Europe
- Specialty Beers Design -- Andy Farrell, Bell's Brewery Inc.

Live Zoom Discussion: Friday, Oct. 7 (1:00 -4:00 pm CDT), Happy Hour (Optional, 4:00- 5:00)

Week 5 (Oct. 8 - 14)

Independent Learning:

- Brewery Effluent Management -- Jeff VanVoorhis, Symbiont, A Mead & Hunt Company
- Cellar Operations and Beer Filtration -- Tom Eplett, JT Eplett Brewing Technology Consulting LLC
- Physical and Flavor Stability of Beer Tom Eplett, JT Eplett Brewing Technology Consulting LLC
- QC/QA Emily Wang, Fermly

Live Zoom Discussion: Friday, Oct. 14 (1:00 -4:00 pm CDT), Happy Hour (Optional, 4:00-5:00)

Week 6 (Oct. 15-21)

Independent Learning:

- Brewing Microbiology -- Bill Maca, HWM Yeast Solutions LLC
- Nature of Brewing Yeast -- Bill Maca, HWM Yeast Solutions LLC
- Wort Aeration, Yeast Pitching, and Fermentation -- Jeff Biegert, New Belgium Brewing Company

Live Zoom Discussion: Friday, October 21 (1:00 -4:00 pm CDT)

In-Person at The University of Wisconsin, Madison

Sunday, Oct. 23

Opening Banquet (6:00 pm)

Monday, Oct. 24

- Malting and Malt Analysis Joe Hertrich, Anheuser-Busch Inc (Retired)
- Brewing Steve Presley, Anheuser-Busch (Retired)

Tuesday, Oct. 25 – Visit Briess Malthouse

- Specialty Malt Dan Bies, Briess Malting Co.
- Malt Flavour and Aroma Rob McCaig, Asahi Europe
- Student Projects

Wednesday, Oct. 26

• Brewing Demo – Jon Roll, U of W Madison

• Sensory – Roy Desrochers, University of Vermont

Thursday, Oct. 27 – Brewery Visit and Tour

Student Projects

Friday, Oct. 28

- Hops, Hop Products & Dry Hopping Mike Sutton, Hopsteiner
- Brewing Adjuncts Scott Helstad, Cargill Inc.
- Student Project Presentations
- Closing Banquet (6:00 pm)