

**MSACL Connect : Short Course : LC-MSMS 101 : Jan30-Feb02 2021 : Preliminary Schedule (subject to change)**

<b>DAY 1: Session ID</b>	<b>Type</b>	<b>Time</b>	<b>Instructor?</b>
Pre Class Networking	Mingling & intros	7:45-8am	All
Session 1: Intro to LC-MS/MS	Short lecture 20 minutes	8-8:20 am	Deb
Q&A on Intro sessions	Q&A	8:20-8:40 am	All
10 min break			
Session 2: Basics LC	Lecture 40 minutes	8:50-9:30am	Grace
TS Case 2   TS Case 8a and 8b	Breakout rooms 20 minutes	9:30-9:50am	All
Q&A	Q&A up to 30 minutes	9:50-10:20am	All
Mid-day break			
Session 3: Basics MS/MS	Lecture 40 minutes	12-12:40 pm	Deb
Q&A	Q&A	12:40-12:50pm	All
10 min break			
Session 4: Selecting Installing first LCMSMS	Lecture 45 mins	1-1:45 pm	Lori
Q&A	Q&A 15 minutes	1:45-2pm	All
10 min break			
End of Day Happy Hour (optional)	30 minutes	2:10-2:40	All
End of Day 1			

<b>DAY 2: Session ID</b>	<b>Type</b>	<b>Time</b>	<b>Instructor?</b>
Pre Class Networking	Mingling	7:45am	All
Session 5: Reagents and Internal Standards	Lecture 40 minutes	8-8:40am	Deb
TS Reagent case (MPB from bench) TS Case 10 (IS and analyte with multiple chlorines/isotopic interference in MS) TS Case 9 (combo of MS (calibration issue) that shows benefit of using labeled IS)	Breakout rooms 30 minutes	8:40-9:10am	All
10 min break			
Session 6: Sample Prep 1	Lecture 40 mins	9:20-10am	Deb
Matrix Effects problem set	Breakout rooms 30 minutes	10-10:30am	All
Mid-day break			
Session 7: Sample Prep 2	Lecture 40 mins	12-12:40 pm	Grace
TS Case 3 - no signal due to methanolic HCl when evaporating TS Case 5a - v low signal lost some SPE eluant to waste TS Case 7 - combining two methods on Hamilton StartLET	Breakout rooms 30 minutes	12:40-1:10pm	All
10 min break			
Session 8: Quantitative Data Analysis	Lecture 40 minutes	1:20-2pm	Deb
Batch quantitation demo	Demo 20 minutes	2-2:20pm	Grace
10 min break			
End of day Q&A/Happy Hour (optional)	Q&A   Happy Hour 30 minutes	2:30-3pm	All
End of Day 2			

<b>DAY 3: Session ID</b>	<b>Type</b>	<b>Time</b>	<b>Instructor?</b>
Pre Class Networking	15 minutes	7:45am	All
Session 8: Development and Pre-Validation LC and MS	Lecture 50 mins	8-8:50am	Grace
Q&A	Q&A 10 minutes	8:50-9am	All
10 min break			
Session 9: Development and Pre-validation Sample Prep	Lecture 50 minutes	9:10-10am	Grace
Sample Prep/analyte chemistry Problem Set (based on Judy's problem sets)	Breakout rooms 45 mins	10:10-10:55am	All
Q&A	Q&A 15 minutes	10:55-11:10am	All
Mid-day break			
Session 10: Validation 1	Lecture 30 minutes	12-12:30pm	Lori
Session 11: Validation 2	Lecture 30 minutes	12:40-1:10pm	Lori
10 min break			
Session 12: Validation 3 + QA in Production	Lecture 40 minutes	1:20-2pm	Lori
Validation Q&A	Q&A 30 minutes	2-2:30pm	All
10 min break			
End of day Happy Hour (optional)	Happy Hour	2:40-3:10pm	All
End of Day 3			

<b>DAY 4: Session ID</b>	<b>Type</b>	<b>Time</b>	<b>Instructor?</b>
Pre Class Networking	15 minutes	7:45am	All
Session 13: Maintenance and TS-ing	Lecture 45 minutes	8-8:45am	Grace
15 min break			
Troubleshooting Cases TS Case 1 – post maintenance problems TS Case 4 – MS rough pumps problem TS Case 5b – poor connection in column oven TS Case 6 – post maintenance leak at pump	Breakout Rooms 1hr	9-10am	All
Q&A	Q&A 15 minutes	10-10:15am	All
Mid day Break			
Session 14: Frontiers in Clin MS	Lecture 20 minutes	12-12:30pm	Lori
Q&A	Q&A 15 minutes	12:30-12:45pm	All
15 min break			
Final Happy Hour	60 minutes	1-2pm	All
End of Course!			