

	Saturday	Sunday	Monday
7:30 AM	Pre-Arrival Assignment: Protocol p5.1	7:30 Breakfast Springhill Suites Hotel	7:30 Breakfast Springhill Suites Hotel
8:00 AM			Review SEA Studies (see reading assignments)
8:30 AM			
8:45 AM			
9:00 AM		9:00 Shuttle Springhill Suites Hotel to UMBC	9:00 Shuttle Springhill Suites Hotel to UMBC
9:15 AM		9:15 Lab Meeting Vic Sivanathan 120 Meyerhoff	9:15 Developing Implementation Plans Pushpa Ramakrishna 120 Meyerhoff
9:30 AM		9:30 Lec: Isolation - Direct Isolation, Plaque Assay Vic Sivanathan 120 Meyerhoff	
10:00 AM			
10:15 AM		10:15 - 10:30 Break 145 Meyerhoff	10:15 - 10:30 Break 145 Meyerhoff
10:30 AM		10:30 Demo: Isolation - Direct Isolation, Plaque Assay Mary Ayuk 201 Meyerhoff	10:30 Lab Meeting Vic Sivanathan 120 Meyerhoff
11:00 AM		11:00 Lab: Isolation - Direct Isolation, Plaque Assay Mary Ayuk 201 Meyerhoff	11:00 Lec: Ordering, Preparing Reagents, Working with Bacteria Vic Sivanathan 120 Meyerhoff
11:15 AM			
12:00 PM		12:00 - 1:00 Lunch 145 Meyerhoff	12:00 - 1:00 Lunch 145 Meyerhoff
1:00 PM		1:00 Lec: Isolation - Enriched Isolation, Spot Test Vic Sivanathan 120 Meyerhoff	1:00 Lab: Working with Bacteria Vic Sivanathan, Pushpa Ramakrishna & SEA Team 201 Meyerhoff
1:30 PM		1:30 Demo: Isolation - Enriched Isolation, Spot Test Mary Ayuk 201 Meyerhoff	1:30 Lec: Purification - Picking Plaques, Plaque Assay Vic Sivanathan 120 Meyerhoff
1:45 PM		1:45 Lab: Isolation - Enriched Isolation, Spot Test Mary Ayuk 201 Meyerhoff	
2:00 PM			2:00 Lab Meeting - Review Isolation & Purification plates SEA Team 201 Meyerhoff
2:30 PM	2:30 Shuttle Hotel to UMBC 120 Meyerhoff	p5.5: Enriched Isolation; p5.6: Spot Test	
2:45 PM		2:45 Lec: Purification - Serial Dilution, Plaque Assay Vic Sivanathan 120 Meyerhoff	2:45 Demo: Purification - Picking Plaques, Serial Dilution & Plaque Assay Mary Ayuk 201 Meyerhoff
3:00 PM	3:00 Welcome Vic Sivanathan & Pushpa Ramakrishna 120 Meyerhoff		
3:15 PM		3:15 - 3:30 Break 145 Meyerhoff	3:15 - 3:30 Break 145 Meyerhoff
3:30 PM	3:30 Lec: Isolation - Phage Extraction Vic Sivanathan 120 Meyerhoff	3:30 Demo: Purification - Serial Dilution, Plaque Assay Mary Ayuk 201 Meyerhoff	3:30 Lab: Purification - Picking Plaques, Serial Dilution & Plaque Assay Mary Ayuk 201 Meyerhoff
4:00 PM	4:00 Demo: Lab Safety Vic Sivanathan 201 Meyerhoff	4:00 Lab: Purification - Serial Dilution, Plaque Assay Mary Ayuk 201 Meyerhoff	
4:15 PM	4:15 Demo: Sterile Technique, Isolation - Phage Extraction Urszula Golebiewska 201 Meyerhoff	p6.2: Serial Dilution; p5.3: Plaque Assay	
4:30 PM	4:30 Lab: Isolation - Phage Extraction Urszula Golebiewska 201 Meyerhoff		
	p5.5: Enriched Isolation		
5:00 PM	5:00 Lec: Phage Biology Primer Vic Sivanathan 120 Meyerhoff		
5:30 PM	5:30 Lec: Isolation - Enriched Isolation Vic Sivanathan 120 Meyerhoff		
6:00 PM	6:00 - 7:30 Dinner & Social 145 Meyerhoff	6:00 - 7:30 Dinner & Faculty Talk Andy Beyer Commons Skylight Room	6:00 - 7:30 Dinner & Faculty Talk Urszula Golebiewska Commons Skylight Room
7:30 PM	7:30 Demo: Isolation - Enriched Isolation Urszula Golebiewska 201 Meyerhoff	7:30 Debriefing & Social Commons Game Room	7:30 Debriefing & Social Commons Sports Zone
7:45 PM	7:45 Lab: Isolation - Enriched Isolation Urszula Golebiewska 201 Meyerhoff		
	p5.5: Enriched Isolation		
8:30 PM	8:30 Shuttle Fine Arts Loop to Springhill Suites	8:30 Shuttle Commons Loop to Springhill Suites	8:30 Shuttle Commons Loop to Springhill Suites
9:00 PM	9:00 Homework	9:00 Homework	9:00 Homework
10:00 PM			

	Tuesday	Wednesday	Thursday
7:30 AM	7:30 Breakfast Springhill Suites Hotel	7:30 Breakfast Springhill Suites Hotel	7:30 Breakfast Springhill Suites Hotel
8:00 AM	8:00 Shuttle Springhill Suites Hotel to UMBC	8:00 Shuttle Springhill Suites Hotel to UMBC	8:00 Shuttle Springhill Suites Hotel to UMBC
8:30 AM	8:30 Lab Meeting Vic Sivanathan & Pushpa Ramakrishna 120 Meyerhoff	8:30 Lab Meeting Vic Sivanathan 201 Meyerhoff	8:30 Lab Meeting Vic Sivanathan 201 Meyerhoff
8:45 AM	8:45 Lec: Purification - Collecting Plate Lysates, Spot Titer, Full Plate Titer Vic Sivanathan 120 Meyerhoff	8:45 Demo: Characterization - Gel Electrophoresis Andy Beyer 201 Meyerhoff	8:45 Lab: Microscopy - Grid Setup & Imaging SEA Team Urszula Golebiewska & Andy Beyer 201 Meyerhoff
9:00 AM		p10.3: Gel Electrophoresis of Restriction Enzyme Digests	p8.1a&b: Mounting Phage Samples for TEM
9:15 AM	9:15 Demo: Purification - Collecting Plate Lysates: Flood, Spot Titer, Full Plate Titer Urszula Golebiewska 201 Meyerhoff	9:00 Lab: Characterization - Gel Electrophoresis Andy Beyer 201 Meyerhoff	*Review Webbed Plates; Prepare for Phage Nomination
9:30 AM	9:30 Lab: Purification - Collecting Plate Lysates (Flood ONLY) Urszula Golebiewska 201 Meyerhoff	p10.3: Gel Electrophoresis of Restriction Enzyme Digests	
10:00 AM	p6.3: Collecting Plate Lysates	10:00 Group Photo Depart from 201 Meyerhoff	
10:15 AM	10:15 - 10:30 Break 145 Meyerhoff	10:15 - 10:30 Break 145 Meyerhoff	10:15 - 10:30 Break 145 Meyerhoff
10:30 AM	10:30 Lab: Purification - Spot Titer, Full Plate Titer Urszula Golebiewska 201 Meyerhoff	10:30 Lec: Amplification - Calculate Titer & Preparing Webbed Plates Vic Sivanathan 120 Meyerhoff	10:30 Lab: Microscopy - Grid Setup & Imaging Urszula Golebiewska & Andy Beyer 201 Meyerhoff
11:00 AM	p6.4: Spot Titer, p6.5: Full Plate Titer		p8.1a&b: Mounting Phage Samples for TEM
11:15 AM		11:15 Lab: Amplification - Calculate Titer SEA Team 201 Meyerhoff	*Review Webbed Plates; Prepare for Phage Nomination
12:00 PM	12:00 - 1:00 Lunch 145 Meyerhoff	12:00 - 1:00 Lunch, Implementation Discussion 145 Meyerhoff	12:00 - 1:00 Lunch 145 Meyerhoff
1:00 PM	1:00 Lec: DNA Extraction Vic Sivanathan 120 Meyerhoff	1:00 Lab: Amplification - Webbed Plates Urszula Golebiewska 201 Meyerhoff	1:00 Lab: Finalize Microscopy & Clean Up 201 Meyerhoff
1:30 PM	1:30 Demo: DNA Extraction Andy Beyer 201 Meyerhoff		
1:45 PM	1:45 Lab: DNA Extraction Andy Beyer 201 Meyerhoff	p7.1: Making Webbed Plates	
2:00 PM	p9.1: Phage DNA Extraction		2:00 Lec: Archiving Vic Sivanathan 120 Meyerhoff
2:30 PM		2:30 Lab Meeting: Data Analyses SEA Team 201 Meyerhoff	2:30 Lec: Assessment Vic Sivanathan 120 Meyerhoff
2:45 PM		p6.4: Spot Titer; p6.5: Full Plate Titer; p10.5: Analyzing Restriction Enzyme Gels	
3:00 PM			
3:15 PM	3:15 - 3:30 Break 145 Meyerhoff	3:15 - 3:30 Break 145 Meyerhoff	3:15 - 3:30 Break 145 Meyerhoff
3:30 PM	3:30 Lec: Characterization - Restriction Enzyme Digest Vic Sivanathan 120 Meyerhoff	3:30 Lec: Microscopy Vic Sivanathan 120 Meyerhoff	3:30 Phage Nomination & Voting SEA Team 120 Meyerhoff
4:00 PM	4:00 Demo: Characterization - Restriction Enzyme Digest Andy Beyer 201 Meyerhoff	4:00 Demo: Microscopy - Grid Setup Vic Sivanathan 201 Meyerhoff	
4:15 PM	4:15 Lab: Characterization - Restriction Enzyme Digest Andy Beyer 201 Meyerhoff		
4:30 PM	p10.1: Setting Up Restriction Enzyme Digests	4:30 Lab: Microscopy - Grid Setup & Make Webbed Plates SEA Team 201 Meyerhoff	4:30 Implementation Q&A SEA Team 120 Meyerhoff
5:00 PM		p8.1a&b: Mounting Phage Samples for TEM	
5:30 PM		Note: Course Prep & Implementation Strategy Development.	
6:00 PM	6:00 - 7:30 Dinner & Faculty Talk Mary Ayuk Commons Skylight Room	6:00 - 7:30 Dinner & Faculty Talk Danielle Heller Commons Skylight Room	6:00 - 7:30 Dinner, Final Exam & Certification Commons Skylight Room
7:30 PM	7:30 Debriefing & Social Commons Game Room	7:30 Debriefing & Social Commons Game Room	7:30 Social Commons Flat Tuesday
7:45 PM			
8:30 PM	8:30 Shuttle Commons Loop to Springhill Suites	8:30 Shuttle Commons Loop to Springhill Suites	
9:00 PM	9:00 Homework	9:00 Homework	9:00 Shuttle Commons Loop to Springhill Suites
10:00 PM			10:00 Shuttle Commons Loop to Springhill Suites