	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
7:30 AM	Pre-Arrival Assignment: Collect Environmental Samples Review Phage Discovery Guide: Chapters 1 - 9, Video Protocol p5.1	7:30 | **Breakfast** | 161 Patapsco	7:30 | **Breakfast** | 161 Patapsco	7:30 | **Breakfast** | 161 Patapsco	7:30 | **Breakfast** | 161 Patapsco	7:30 | **Breakfast** | 161 Patapsco	7:30 | **Breakfast** | 161 Patapsco
8:00 AM		8:30 | **Lab Meeting** | Kristen Butela| 120 Meyerhoff	8:30 | **Lab Meeting** | Kristen Butela| 201 Meyerhoff	8:30 | **Lab Meeting** | Kristen Butela | 201 Meyerhoff	8:30 | **Lab Meeting** | Kristen Butela | 201 Meyerhoff	8:30 | **Lab: Amplification II - Webbed Plates** | Karen Klyczek, Nick Peters, Tom D'Elia | 201 Meyerhoff
8:45 AM		8:45 | **Lec: Isolation III - Direct Isolation, Plaque Assay** | Karen Klyczek | 120 Meyerhoff	8:45 | **Lec: Ordering, Preparing Reagents, Resources** | Vic Sivanathan | 201 Meyerhoff *Phage Instructors Guide - Appendix*	8:45 | **Lec: Purification II - Collecting Plate Lysates, Spot Titer, Full Plate Titer** | Tom D'Elia | 120 Meyerhoff	8:45 | **Lab: Characterization - Gel Electrophoresis** | Nick Peters, Karen Klyczek | 201 Meyerhoff *p10.3: Gel Electrophoresis of Restriction Enzyme Digests*	8:45 | **Lab: Microscopy - Grid Setup & Imaging** | Deb Tobiason, Kristen Butela, Vic Sivanathan | 201 Meyerhoff *p8.1a&b: Mounting Phage Samples for TEM*	8:45 | **Lab: Amplification II - Webbed Plates** | Karen Klyczek, Nick Peters, Tom D'Elia | 201 Meyerhoff *p7.1: Making Webbed Plates*	9:00 | **Lab Meeting** | Kristen Butela SEA Team | 201 Meyerhoff
9:00 AM		9:15 | **Demo: Isolation II - Direct Isolation, Plaque Assay** | Karen Klyczek | 201 Meyerhoff		9:15 | **Demo: Purification III - Collecting Plate Lysates: Flood, Spot Titer, Full Plate Titer** | Tom D'Elia, Vic Sivanathan | 201 Meyerhoff				
9:30 AM		9:30 | **Lab: Isolation III - Direct Isolation, Plaque Assay** | Karen Klyczek, Nick Peters | 201 Meyerhoff *p5.2:Direct Isolation; p5.3: Plaque Assay*	9:15 | **Lec: Working with Bacteria & Phage** | Vic Sivanathan | 201 Meyerhoff *Phage Instructors Guide - Appendix*	9:30 | **Lab: Purification III - Collecting Plate Lysates** | Tom D'Elia, Vic Sivanathan| 201 Meyerhoff *p6.3: Collecting Plate Lysates*				
10:00 AM	10:00 - 3:00 | **Registration** | 161 Patapsco				10:00 | **Group Photo** | Depart from 201 Meyerhoff		10:00 | **Lec: Assessment** | Vic Sivanathan | 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	10:15 - 10:30 | **Break** | 145 Meyerhoff	10:15 - 10:30 | **Break** | 145 Meyerhoff	10:15 - 10:30 | **Break** | 145 Meyerhoff
10:30 AM		10:30 | **continue, Lab: Isolation III - Direct Isolation, Plaque Assay** | Karen Klyczek, Nick Peters | 201 Meyerhoff	10:30 | **Lab: Working with Bacteria** | Vic Sivanathan, SEA Team | 201 Meyerhoff	10:30 | **Lab: Purification III - Spot Titer, Full Plate Titer** | Tom D'Elia, Vic Sivanathan | 201 Meyerhoff *p6.4: Spot Titer, p6.5: Full Plate Titer*	10:45 | **Open Lab, Collecting Plate Lysates from 48 hr Enrichments** | SEA Team | 201 Meyerhoff	10:30 | **Lab: Microscopy - Grid Setup & Imaging** | Deb Tobiason, Kristen Butela, Vic Sivanathan | 201 Meyerhoff	10:30 | **Lab: Amplification II - Webbed Plates** | Karen Klyczek, Nick Peters, Tom D'Elia | 201 Meyerhoff	10:30 | **Lab Clean-Up** | 201 Meyerhoff
11:00 AM		11:30 | **Lec: Isolation IV - Enriched Isolation, Spot Test** | Nick Peters | 120 Meyerhoff	11:30 | **Lec: Purification II - Picking Plaques, Plaque Assay** | Tom D'Elia| 120 Meyerhoff					10:45 | **Final Exam** | 201 Meyerhoff
11:45 AM							11:30 | **Award Ceremony** | 201 Meyerhoff
12:00 PM	12:00 - 1:00 | **Lunch** | 161 Patapsco	12:00 - 1:00 | **Lunch** | 145 Meyerhoff	12:00 - 1:00 | **Lunch** | 145 Meyerhoff	12:00 - 1:00 | **Lunch** | 145 Meyerhoff	12:00 - 1:00 | **Lunch, Journal Club** | 145 Meyerhoff	12:00 - 1:00 | **Lunch** | 145 Meyerhoff	12:00 | **Boxed Lunches For Departure** | 145 Meyerhoff
1:00 PM		1:00 | **Demo: Isolation IV - Enriched Isolation, Spot Test** | Nick Peters | 201 Meyerhoff	1:00 | **Lab Meeting - Review Isolation & Purification I plates** | SEA Team | 201 Meyerhoff	1:00 | **Lec: DNA Extraction** | Kristen Butela | 120 Meyerhoff	1:00 | **Lec: Amplification I - Calculate Titer & Preparing Webbed Plates** | Karen Klyczek | 120 Meyerhoff	1:00 | **Lab: Amplification II - Webbed Plates** | Karen Klyczek, Nick Peters, Tom D'Elia | 201 Meyerhoff *p7.1: Making Webbed Plates*	1:00 | **Lab: Microscopy - Grid Setup & Imaging** | Deb Tobiason, Kristen Butela, Vic Sivanathan | 201 Meyerhoff *p8.1a&b: Mounting Phage Samples for TEM*	
1:15 PM		1:15 | **Lab: Isolation IV - Enriched Isolation, Spot Test** | Nick Peters, Karen Klyczek| 201 Meyerhoff *p5.5: Enriched Isolation; p5.6: Spot Test*					
1:30 PM			1:30 | **Demo: Purification II - Picking Plaques, Plaque Assay** | Tom D'Elia | 201 Meyerhoff	1:30 | **Demo: DNA Extraction** | Kristen Butela | 201 Meyerhoff *p9.1: Phage DNA Extraction*	1:30 | **Lab: Amplification I - Calculate Titer** | Karen Klyczek, Nick Peters | 201 Meyerhoff			
1:45 PM			1:45 | **Lab: Purification II - Picking Plaques, Plaque Assay** | Tom D'Elia, Vic Sivanathan | 201 Meyerhoff	1:45 | **Lab: DNA Extraction** | Kristen Butela, Deb Tobiason | 201 Meyerhoff				
2:00 PM					2:00 | **Lab Meeting: Data Analyses** | Vic Sivanathan, SEA Team | 201 Meyerhoff			
2:15 PM	2:45 | **Gather to depart for Lab** | 161 Patapsco	2:45 | **Lec: Purification I - Serial Dilution, Plaque Assay** | Deb Tobiason | 120 Meyerhoff			2:45 | **Lec: Microscopy** | Deb Tobiason| 120 Meyerhoff		
2:30 PM	3:00 | **Welcome** | Kristen Butela| 120 Meyerhoff						
2:45 PM							
3:00 PM	3:15 | **Course Overview** | Kristen Butela| 120 Meyerhoff	3:15 - 3:30 | **Break** | 145 Meyerhoff	3:15 - 3:30 | **Break** | 145 Meyerhoff	3:15 - 3:30 | **Break** | 145 Meyerhoff	3:15 - 3:30 | **Break** | 145 Meyerhoff	3:15 - 3:30 | **Break** | 145 Meyerhoff	3:15 - 3:30 | **Break** | 145 Meyerhoff
3:15 PM	3:30 | **Lec: Isolation I - Phage Extraction** | Vic Sivanathan | 120 Meyerhoff	3:30 | **Demo: Purification I - Serial Dilution, Plaque Assay** | Deb Tobiason | 201 Meyerhoff	3:30 -4:30 |**Open Lab & 48 hr Enrichment**| SEA Team | 201 Meyerhoff	3:30 | **Lec: Characterization - Restriction Enzyme Digest** | Nick Peters | 120 Meyerhoff	3:30 | **Demo: Microscopy - Grid Setup** | Deb Tobiason | 201 Meyerhoff	3:30 | **Lec: Advanced Phage Biology** | Kristen Butela | 120 Meyerhoff	
3:30 PM		3:45 | **Lab: Purification I - Serial Dilution, Plaque Assay** | Deb Tobiason, Kristen Butela | 120 Meyerhoff *p6.2: Serial Dilution; p5.3: Plaque Assay*	*p5.6: Spot Test*		3:45 | **Lab: Microscopy - Grid Setup** | Deb Tobiason, Kristen Butela | 201 Meyerhoff *p8.1a&b:* Mounting Phage Samples for TEM Note Course Prep & Implementation Strategy Development		
3:45 PM	4:00 | **Demo: Lab Safety** | Vic Sivanathan | 201 Meyerhoff						
4:00 PM							
4:15 PM	4:15 | **Demo: Sterile Technique, Isolation I - Phage Extraction** | Vic Sivanathan | 201 Meyerhoff			4:15 | **Lab: Characterization - Restriction Enzyme Digest** | Nick Peters, Karen Klyczek | 201 Meyerhoff		4:15 | **Phage Nomination & Voting** | SEA Team | 120 Meyerhoff	
4:30 PM	4:30 | **Lab: Isolation I - Phage Extraction** | Vic Sivanathan, Tom D'Elia | 201 Meyerhoff *p5.5: Enriched Isolation*		4:30 | **Course Implementation Strategy Planning + Free Time**	*p10.3: Setting Up Restriction Enzyme Digests*		4:30 | **Implementation Q&A** | SEA Team | 120 Meyerhoff	
4:45 PM							
5:00 PM	5:00 | **Lec: Phage Biology Primer** | Kristen Butela | 120 Meyerhoff						
5:30 PM	5:30 | **Lec: Isolation II - Enriched Isolation** | Vic Sivanathan | 120 Meyerhoff						
6:00 PM	6:00 - 7:00 | **Dinner** | 145 Meyerhoff	6:00 - 7:00 | **Dinner** | 145 Meyerhoff	6:00 - 7:00 | **Dinner** | 145 Meyerhoff	6:00 - 7:00 | **Dinner** | 145 Meyerhoff	6:00 - 7:00 | **Dinner** | 145 Meyerhoff	6:00 - 7:00 | **Dinner** | 145 Meyerhoff	6:00 - 7:00 | **Dinner** | 145 Meyerhoff
6:30 PM	7:00 | **Demo: Isolation II - Enriched Isolation** | Vic Sivanathan | 201 Meyerhoff	7:00 | **Teaching Tools** | Kristen Butela | 120 Meyerhoff	7:00 | **Teaching Tools** | Kristen Butela | 120 Meyerhoff	7:00 | **Teaching Tools** | Kristen Butela | 120 Meyerhoff	7:00 | **Teaching Tools** | Kristen Butela | 120 Meyerhoff	7:00 | **Bioinformatics: Primer** | Dan Russell | 120 Meyerhoff	
7:00 PM	7:15 | **Lab: Isolation II - Enriched Isolation** | Vic Sivanathan, Tom D'Elia | 201 Meyerhoff *p5.5: Enriched Isolation*	7:15 | **Faculty Talk** | Tom D'Elia | 120 Meyerhoff	7:15 | **Faculty Talk**| Deb Tobiason | 120 Meyerhoff	7:15 | **Faculty Talk** |Karen Klyczek | 120 Meyerhoff	7:15 | **Faculty Talk** | Nick Peters | 120 Meyerhoff		
7:15 PM							
7:30 PM	8:00 | **Debriefing & Social** | 145 Meyerhoff	8:00 | **Debriefing & Social** | 145 Meyerhoff	8:00 | **Debriefing & Social** | Commons Game Room	8:00 | **Debriefing & Social** | Commons Game Room	8:00 | **Debriefing & Social** | Commons Game Room	8:00 |**Final Exam Prep** | Commons Game Room	8:00 |**Final Exam Prep** | Commons Game Room
8:00 PM	Homework	Homework	Homework	Homework	Homework	Homework	Homework