

Task Name	Start	Finish	Duration	Predecessors	Q2			Q3			Q4			Q1			Q2			Q3		
					Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1 Experimental work	06/25/18	04/10/19	208d																			
2 Hydrophilics	06/25/18	08/24/18	45d																			
3 Measure contact angles for wafers	06/25/18	07/10/18	12d																			
4 Coat wafers with polymer – matte and glossy	07/11/18	08/03/18	18d	3																		
5 Test polymer combinations for flowdown on wafers	08/06/18	08/17/18	10d	4																		
6 Summarize results	08/20/18	08/24/18	5d	5																		
7 Results summary	08/24/18	08/24/18	0	6																		
8 Mechanical	07/10/18	09/06/18	43d																			
9 Test ruffle effects on wafer models	07/10/18	08/06/18	20d																			
10 Extend ruffles to disks and spin blood	08/07/18	08/16/18	8d	9																		
11 Repeats to verify	08/17/18	09/06/18	15d	10																		
12 Summarize results	09/06/18	09/06/18	0	11																		
13 Model Verification	10/15/18	04/10/19	128d																			
14 Find initial packing factor	10/15/18	10/23/18	7d	23																		
15 Collect experimental sedimentation curve for comparison	11/29/18	12/05/18	5d	28																		
16 Bacterial spinning to test optimal trajectory	02/07/19	03/06/19	20d	34																		
17 Repeats	03/07/19	04/10/19	25d	16																		
18 Modeling	08/29/18	02/06/19	116d																			
19 Formulation	08/29/18	11/23/18	63d																			
20 Set up hyperbolic PDE integration code	08/29/18	09/04/18	5d																			
21 Duplicate single particle sedimentation curve	09/04/18	09/04/18	0	20																		
22 Compare settling velocity functions in graphs for RBCs	09/24/18	09/28/18	5d																			
23 Incorporate functions into single particle curve	10/01/18	10/12/18	10d	21, 22																		
24 Incorporate Enquist–Osher scheme for RZ correlation	10/15/18	11/02/18	15d	23																		
25 Incorporate flux density corrections	11/05/18	11/23/18	15d	24																		
26 Multicomponent sedimentation curve	10/15/18	11/23/18	30d	23																		
27 Validation	11/26/18	12/19/18	18d																			
28 Find Mahsa's and Pitt's bacterial recovery data.	11/26/18	11/28/18	3d	26																		
29 Compare prediction methods and experimental data	11/29/18	12/19/18	15d	28																		
30 Plot predicted bacterial recovery vs actual	12/19/18	12/19/18	0	29																		
31 Plot comparing characteristic length and PDE method	12/19/18	12/19/18	0	29																		
32 Optimization	11/29/18	02/06/19	50d																			
33 Select optimization technique/solver	11/29/18	12/26/18	20d	28																		
34 Predict optimal parameters for bacterial recovery in 1D	12/27/18	02/06/19	30d	33																		
35 Writing and presentations	07/02/18	07/06/19	265d																			
36 Prospectus	07/02/18																					
37 Draft 1 – Pitt	07/02/18																					
38 Draft 2 – Committee			30d																			
39 Incorporate disk modifications into thesis	08/20/18	08/21/18	2d	5																		
40 Start putting Thesis together	09/06/18	09/06/18	0	12																		
41 defend thesis	07/06/19	07/06/19	0																			
42 Conference somewhere?			10d																			