

Week 1	DAY 1 Monday	DAY 2 Tuesday	DAY 3 Wednesday	DAY 4 Thursday	DAY 5 Friday					
Dates	2026-03-02	2026-03-03	2026-03-04	2026-03-05	2026-03-06					
Time	Tasks									
09:00	Course Introduction / Group distribution	Lecture Molecular Cloning	Pick Colonies	Lecture Protein Splicing and Cell Line Engineering	ITiM / Start Selection and passage to 10 cm					
09:30			Transfection							
10:00										
10:30	Safety Briefing	Purification of digested PCR Products for Ligation Cloning	Exercise Molecular Cloning with Benchling (1) - Assignments	Miniprep	Medium Exchange and Illumination Start					
11:00	PCR / Gel preparation									
11:30										
12:00	Lecture Reporters		Test-digest	SEAP Supernatant Collection and Inactivation at 65°C						
12:30										
13:00	Break	AQUA / Ligation	Break		Break					
13:30	Gel-Electrophoresis									
14:00	PCR Product Gel Purification / DNA Quantification									
14:30										
15:00	Seeding Mammalian Cells		Change Medium after Transfection	Gel-Electrophoresis and DNA Sequencing						
15:30										
16:00					Digestion of PCR Product for Ligation Cloning					
16:30										
17:00	End of the day cleaning	End of the day cleaning			End of the day cleaning					
17:30	End of the day cleaning									
18:00										

Week 2	DAY 6 Monday	DAY 7 Tuesday	DAY 8 Wednesday	DAY 9 Thursday	DAY 10 Friday				
Dates	2026-03-09	2026-03-10	2026-03-11	2026-03-12	2026-03-13				
Time	Tasks								
09:00	Transformation into E. coli Expression Strain	E. coli Inoculation, OD Measurement	Fluorescence and OD Measurement, Analysis	Exercise SynBio Startup Pitch	ITiM / split cells				
09:30									
10:00									
10:30									
11:00			Inoculate cultures						
11:30			Break	Break	Midprep				
12:00									
12:30									
13:00			Exercise PyMOL Modeling	Harvest cultures	Break				
13:30									
14:00	Lecture Optogenetics and Gene Switches								
14:30									
15:00									
15:30									
16:00	Protocol / Presentation Prep Time	Transformation for Midprep							
16:30	Change Medium for selection		Exercise PyMOL Modeling	End of the day cleaning	Protocol / Presentation Prep Time				
17:00	End of the day cleaning	End of the day cleaning							
17:30	End of the day cleaning								
18:00									