

SUSTAINABLE LIFE

COURSE LEADER

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BI1044

SLU'S ADVANCED PLANT PATHOLOGY MASTER COURSE

FALL SEMESTER 2022 COURSE SCHEDULE

Version June 28, 2022

Department of Forest Mycology and Plant Pathology. Swedish University of Agricultural Sciences. Almas Allé 5, 75007. Uppsala. Sweden.

week	35 _ August 29 – September 2		
	Monday 29 Aug.	Tuesday 30 Aug.	Wednesday 31 Aug.
9:00	monday 20 nagi	#Lecture [AK]	#Lecture [SB]
10:15		- Introduction to plant virology. ZOOM	Diagnostics and identification of plant diseases: Symptomatology, Koch postulates.
			BioC-C216
Break			
10:30 12:00		#Lecture [AK] - Transmission of plant viruses. ZOOM	#Lecture [SB] Diagnostics and identification of plant diseases: Symptomatology, Koch postulates.
			BioC-C216
Break	#Locture [CD]	# Field Work [AV]	
13:00 14:15	#Lecture [SB] Course Introduction BioC-C216	# Field Work [AK] - Survey of Plant Viruses at Uppsala Botanical Garden.	
Break			
14:30	#Lecture [SB]	# Field Work [AK]	
16:00	Principles of Plant Pathology BioC-C216	- Survey of Plant Viruses at Uppsala Botanical Garden.	
	Thursday 1 Sep.	Friday 2 Sep.	Remarks
9:00	#Field Work [SB/BA]	#Lab Work [AB/BA] updated	nonding.
10:15	- Survey of plant diseases How to perform and report field observations. Campus Ultuna	content - Diagnostics of Plant Diseases [Microscopy Practical] BÖL 2	
Break			
10:30 12:00	#Field Work [SB/BA] - Survey of plant diseases. How to perform and report field observations. Campus Ultuna	#Lab Work [AB/BA] updated content - Diagnostics of Plant Diseases [Microscopy Practical] BÖL 2	
Break	, , , , , , , , , , , , , , , , , , , ,		
13:00 14:15	#Lab Work [SB/BA] - Diagnostics and isolation of plant pathogens. Microscopy Lab. Microbiology Lab.		
	BÖL 2		
Break			

TTUUR	36 _ September 5 – September 9		
	Monday 5 Sep.	Tuesday 6 Sep.	Wednesday 7 Sep.
9:00 10:15	#Lecture [AL] - Plant Protection Extension (Swedish Board of Agriculture) BioC-C216	#Lab Work [SB/EV] - Molecular diagnostics of plant pathobiomes [DNA extraction] BÖL 2	#Lab Work [SB/EV] - Molecular diagnostics of plant pathobiomes [Gel electrophoresis] BÖL 2
Break		5011	5612
10:30 12:00	#Lecture [AL] - Plant Protection Extension (Swedish Board of Agriculture) BioC-C216	#Lab Work [SB/EV] - Molecular diagnostics of plant pathobiomes [DNA extraction] BÖL 2	#Lab Work [SB/EV] - Molecular diagnostics of plant pathobiomes [Gel electrophoresis] BÖL 2
Break	TEX1 [MK/EP]: Phylogeny of plant pathogenic fungi. Uploaded on canvas.		
13:00 14:15	#Lecture [MK] - Systematics of the fungal kingdom {room: tba}	#Lab Work [SB/EV] - Molecular diagnostics of plant pathobiomes [PCR detection] BÖL 2	
Break			
14:30 16:00	#Lecture [MK] - Systematics of the fungal kingdom {room: tba}	#Lab Work [SB/EV] - Molecular diagnostics of plant pathobiomes [PCR detection] BÖL 2	
	Thursday 8 Sep.	Friday 9 Sep.	Remarks
9:00 10:15	Thursday o oop.	#Lecture [MK] - Molecular Characterization of Fungal Pathogens Computer Datorsal 1 and 2	Homarko
	Thursday o dop.	#Lecture [MK] - Molecular Characterization of Fungal Pathogens	
10:15		#Lecture [MK] - Molecular Characterization of Fungal Pathogens	
10:15 Break 10:30		#Lecture [MK] - Molecular Characterization of Fungal Pathogens	
10:15 Break 10:30 12:00	#TEX1 Group Study [MK] - Phylogeny of Plant Pathogenic Fungi ZOOM	#Lecture [MK] - Molecular Characterization of Fungal Pathogens	
Break 10:30 12:00 Break 13:00	#TEX1 Group Study [MK] - Phylogeny of Plant Pathogenic Fungi	#Lecture [MK] - Molecular Characterization of Fungal Pathogens	
10:15 Break 10:30 12:00 Break 13:00 14:15	#TEX1 Group Study [MK] - Phylogeny of Plant Pathogenic Fungi	#Lecture [MK] - Molecular Characterization of Fungal Pathogens	

	37 _ September 12 – September 16		
	Monday 12 Sep.	Tuesday 13 Sep.	Wednesday 14 Sep.
9:00 10:15		# Lab Work [MD] - Biological Control of Plant Diseases BÖL 2	#Lecture [JZ] - Principles of plant disease epidemiology BioC-C212
Break			
10:30 12:00		# Lab Work [MD] - Biological Control of Plant Diseases BÖL 2	#Lecture [JZ] - Principles of plant disease epidemiology: statistical models. BioC-C212
Break	TEX2 [MK]: Biological control of plant pathogens. Uploaded on Canvas.		
13:00 14:15	# Lab Work [MD] - Biological Control of Plant Diseases BÖL 2	# Lab Work [MD] - Biological Control of Plant Diseases BÖL 2	
Break			
14:30 16:00	# Lab Work [MD] - Biological Control of Plant Diseases BÖL 2	# Lab Work [MD] - Biological Control of Plant Diseases BÖL 2	
	Thursday 15 Sep.	Friday 16 Sep.	Remarks
9:00 10:15	#Lecture [BA] - Life cycle and epidemiology of airborne pathogens. BioC-C213	#Lecture [MK] - Biological disease control BioC-C213	
Break			
10:30 12:00	#Lecture [MK] - Life cycle and epidemiology of soilborne pathogens.	#TEX2 Discussion [MK] - Biological control of plant pathogens.	
	BioC-C213	BioC-C213	
Break			
13:00 14:15	#Lecture [HF] - Suppressive soils BioC-C213		
_	5.55 5215		
Break 14:30			

	Monday 19 Sep.	Tuesday 20 Sep.	Wednesday 21 Sep.
9:00 10:15		#Lecture [BA] - Chemical disease control BioC-C213	#Lecture [SB] - Mechanisms of adaptation of pathogens to new hosts: adapted pathogens. BioC-C213
Break			
10:30 12:00		#Lecture [BA] - Surveillance and forecasting of plant diseases BioC-C213	#Lecture [SB] - Mechanisms of adaptation of pathogens to new hosts: non-adapted pathogens. BioC-C213
Break	TEX3 [AB]: Population genetics of plant pathogens. Uploaded on Canvas.		
13:00 14:15	#Lecture [MK] - Life cycle and epidemiology of post-harvest diseases. BioC-C216	#Computer Exercise [BA/JG] - Disease forecast BioC-C213	
Break			
14:30 16:00	#Lecture [HF] - Fungal mycotoxins. BioC-C216	#Computer Exercise [BA/JG] - Disease forecast BioC-C213	
	Thursday 99 Con	Friday 99 Con	Pomorko
0.00	Thursday 22 Sep.	Friday 23 Sep.	Remarks
9:00 10:15	#Lecture [BA] - Fungicide resistance. BioC-C213	#Lecture [AB] - Population genetics of plant pathogens. BioC-C213	
Break			
10:30 12:00	#Lecture [MV] - Plant pathogenic nematodes BioC-C213	#TEX3 Discussion [AB] - Population genetics of plant pathogens. BioC-C213	
Break			
13:00 14:15	#Lab work [MV] - Plant Pathogenic Nematodes. BÖL 2		
Break			
14:30 16:00	#Lab work [MV] - Plant Pathogenic Nematodes. BÖL 2		

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	Monday 26 Sep.	Tuesday 27 Sep.	Wednesday 28 Sep.
0:00		#Lecture [MD]	
0:15		- How pathogens attack plants.	
		BioC-C212	
		BIOC-C212	
reak			
0:30		#Lecture [MD]	
2:00		- How pathogens attack plants.	
2.00		now patriogeris attack plants.	
		BioC-C212	
		2.00 0222	
reak	TEX4 [SB]: Durable plant		
	immunity. Uploaded on Canvas.		
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3:00	#Lecture [SB]	#Lecture [GT]	
4:15	- Principles of plant immunity:	- How plants defend against	
	genetic basis.	pathogens.	
	BioC-C216	BioC-C212	
Break			
4:30	#Lecture [SB]	#Lecture [GT]	
6:00	- Principles of plant immunity:	- How plants defend against	
	molecular basis.	pathogens.	
	BioC-C216	BioC-C212	
	BioC-C216		
		BioC-C212	
	Thursday 29 Sep.	BioC-C212 Friday 30 Sep.	Remarks
	Thursday 29 Sep. #Lecture [SB]	Friday 30 Sep. # Lab Work [MD]	Remarks
	Thursday 29 Sep.	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant	Remarks
	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases	Remarks
	Thursday 29 Sep. #Lecture [SB]	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant	Remarks
0:00	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases	Remarks
.0:15 Break	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2	Remarks
.0:15 Break .0:30	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213 #TEX4 Discussion [SB]	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD]	Remarks
.0:15 Break .0:30	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant	Remarks
0:15 Break 0:30	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213 #TEX4 Discussion [SB] - Durable plant immunity	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases	Remarks
.0:15 Break .0:30	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213 #TEX4 Discussion [SB]	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant	Remarks
0:15 Break 0:30 .2:00	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213 #TEX4 Discussion [SB] - Durable plant immunity	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases	Remarks
0:15 Break 0:30 2:00	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213 #TEX4 Discussion [SB] - Durable plant immunity	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2	Remarks
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0:15 reak 0:30 2:00	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213 #TEX4 Discussion [SB] - Durable plant immunity	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases	Remarks
0:15 Break 0:30 .2:00	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213 #TEX4 Discussion [SB] - Durable plant immunity	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases	Remarks
8reak .0:30 .2:00	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213 #TEX4 Discussion [SB] - Durable plant immunity	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases	Remarks
0:15 Break 0:30 2:00 Break 3:00 4:15	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213 #TEX4 Discussion [SB] - Durable plant immunity	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases	Remarks
8reak .0:30 .2:00 8reak .3:00 .4:15	Thursday 29 Sep. #Lecture [SB] - Durable plant immunity BioC-C213 #TEX4 Discussion [SB] - Durable plant immunity	Friday 30 Sep. # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2 # Lab Work [MD] - Biological Control of Plant Diseases BÖL 2	Remarks
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	Monday 3 Oct.		Tuesday 4 Oct.	Wednesday 5 Oct
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10:15			{tba}	
			BioC-C213	
3reak				
10:30			#Future plant health	
12:00			{tba}	
			DiaC C212	
			BioC-C213	
Break				
13:00			#Future plant health	
14:15			{tba}	
-				
			BioC-C213	
Break				
14:30			#Future plant health	
16:00			{tba}	
			BioC C242	
			BioC-C213	
	Thursday 6 Oct.		Friday 7 Oct.	Remarks
9:00	#IPM Workshop		#IPM Workshop	
0:15	- Group work		- Group presentations	
		ZOOM	Lecture hall R	
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Break	HIDDA A A A and a later		HIDNA Marshall are	-
10:30	#IPM Workshop - Group work		#IPM Workshop	
12:00	- Group work	ZOOM	- Group presentations Lecture hall R	
		200101	Lecture Hall K	
Break				
	#IPM Workshop		#IPM Workshop	
13:00	#IPM Workshop - Group work		#IPM Workshop - Group presentations	
13:00	_	ZOOM	· ·	
13:00	_	ZOOM	- Group presentations	
13:00 14:15	_	ZOOM	- Group presentations	
13:00 14:15 Break	- Group work	ZOOM	- Group presentations Lecture hall R	
3:00 4:15 Break 4:30	- Group work #IPM Workshop	ZOOM	- Group presentations Lecture hall R #IPM Workshop	
3:00 4:15	- Group work	ZOOM	- Group presentations Lecture hall R	

	11 _ October 10 – October 1	4		
	Monday 10 Oct.		Tuesday 11 Oct.	Wednesday 12 Oct.
9:00	Olidaj 10 obti		#Future plant health	Transday in our
10:15			{tba}	
			BioC-C213	
Break				
10:30			#Future plant health	
12:00			{tba}	
			BioC-C213	
Break			//= · · · · · · · · · · · · · · · · · ·	
13:00			#Future plant health	
14:15			{tba}	
			BioC-C213	
			BIOC-C213	
Break				
14:30			#Future plant health	
16:00			{tba}	
10.00			((00)	
			BioC-C213	
	Thursday 13 Oct.		Friday 14 Oct.	Remarks
9:00	#One Health Workshop		#One Health Workshop	Remarks
9:00 10:15			#One Health Workshop - Group presentations	Remarks
	#One Health Workshop	ZOOM	#One Health Workshop	Remarks
	#One Health Workshop	ZOOM	#One Health Workshop - Group presentations	Remarks
10:15	#One Health Workshop	ZOOM	#One Health Workshop - Group presentations	Remarks
10:15 Break	#One Health Workshop - Group work	ZOOM	#One Health Workshop - Group presentations Lecture-hall BioC-A241	Remarks
10:15 Break 10:30	#One Health Workshop - Group work #One Health Workshop	ZOOM	#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop	Remarks
10:15 Break	#One Health Workshop - Group work		#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations	Remarks
10:15 Break 10:30	#One Health Workshop - Group work #One Health Workshop	ZOOM	#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop	Remarks
10:15 Break 10:30	#One Health Workshop - Group work #One Health Workshop		#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations	Remarks
10:15 Break 10:30 12:00	#One Health Workshop - Group work #One Health Workshop		#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations	Remarks
10:15 Break 10:30 12:00 Break	#One Health Workshop - Group work #One Health Workshop - Group work		#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241	Remarks
10:15 Break 10:30 12:00 Break 13:00	#One Health Workshop - Group work #One Health Workshop - Group work #One Health Workshop		#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop	Remarks
10:15 Break 10:30 12:00 Break	#One Health Workshop - Group work #One Health Workshop - Group work		#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241	Remarks
10:15 Break 10:30 12:00 Break 13:00	#One Health Workshop - Group work #One Health Workshop - Group work #One Health Workshop	ZOOM	#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations	Remarks
10:15 Break 10:30 12:00 Break 13:00	#One Health Workshop - Group work #One Health Workshop - Group work #One Health Workshop	ZOOM	#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations	Remarks
10:15 Break 10:30 12:00 Break 13:00	#One Health Workshop - Group work #One Health Workshop - Group work #One Health Workshop	ZOOM	#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations	Remarks
Break 10:30 12:00 Break 13:00 14:15	#One Health Workshop - Group work #One Health Workshop - Group work #One Health Workshop	ZOOM	#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations	Remarks
Break 10:30 12:00 Break 13:00 14:15 Break	#One Health Workshop - Group work #One Health Workshop - Group work #One Health Workshop - Group work	ZOOM	#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241	Remarks
Break 10:30 12:00 Break 13:00 14:15 Break 14:30	#One Health Workshop - Group work #One Health Workshop - Group work #One Health Workshop - Group work	ZOOM	#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop	Remarks
Break 10:30 12:00 Break 13:00 14:15 Break 14:30	#One Health Workshop - Group work #One Health Workshop - Group work #One Health Workshop - Group work	ZOOM	#One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations Lecture-hall BioC-A241 #One Health Workshop - Group presentations	Remarks

Week 4	12 _ October 17 – October 21		
	Monday 17 Oct.	Tuesday 18 Oct.	Wednesday 19 Oct.
9:00 10:15	#Finalize case study report	#Finalize case study report	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam
Break			
10:30 12:00	#Finalize case study report	#Submit case study report before 12:00 on Canvas.	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam
Break			
13:00 14:15	#Finalize case study report	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam
Break			
14:30 16:00	#Finalize case study report	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam
	Thursday 20 Oct.	Friday 21 Oct.	Remarks
9:00 10:15	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam	Homarks
Break			
10:30 12:00	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam	
Break			
13:00 14:15	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam	
Break			
14:30 16:00	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam	#Read case study reports of others #Prepare your case study presentations #Prepare for the exam	

	xams		
	Monday 24 Oct.	Tuesday 25 Oct.	Wednesday 26 Oct.
9:00	#Case-Study Presentation	#Prepare for the final exam	#Prepare for the final exam
10:15	Lecture-hall BioC-Lennart Kennes		roparo roi eno imar oriani
Break			
10:30	#Case-Study Presentation	#Prepare for the final exam	#Prepare for the final exam
12:00	Lecture-hall BioC-Lennart Kennes		
Break			
13:00	#Case-Study Presentation	#Prepare for the final exam	#Prepare for the final exam
14:15	Lecture-hall BioC-Lennart Kennes		
Break			
14:30	#Case-Study Presentation Lecture-hall BioC-Lennart Kennes	#Prepare for the final exam	#Prepare for the final exam
16:00	Ecotoric Homoroc Econoric Nermics		
	Thursday 27 Oct.	Friday 28 Oct.	Remarks
9:00			
5.00	#Final Exam		
	#Final Exam BioC. Room A332 BioC. Room A336		
10:15	BioC. Room A332		
10:15 Break	BioC. Room A332 BioC. Room A336		
10:15	BioC. Room A332		
Break 10:30 12:00	#Final Exam BioC. Room A332 #Final Exam BioC. Room A332 BioC. Room A336		
Break 10:30 12:00 Break 13:00	#Final Exam #Final Exam #Final Exam #Final Exam #Final Exam		
Break 10:30 12:00 Break 13:00	#Final Exam BioC. Room A332 #Final Exam BioC. Room A332 BioC. Room A336		
Break 10:30 12:00 Break 13:00 14:15	#Final Exam #Final Exam #Final Exam BioC. Room A332 BioC. Room A336 #Final Exam BioC. Room A332 BioC. Room A332 BioC. Room A332		
10:15 Break 10:30	#Final Exam		