

Bioinformatics: Programming in Python, BINP16, 27 Sep. - 27 Oct. 2017

Department of Biology, Lund University

After this course the students should have basic knowledge of programming in general and in Python in particular. Examples and exercises are based on bioinformatic problems

Course leader, incl contact details: Björn Canbäck (BC), bjorn.canback@biol.lu.se

Other teachers and assistants: Jakob Willforss (JW), Peter Volkov (PV), Christian Brüffer (CB) and Line Kofod Møller (LKM)

Location: Bioinformatic dungeon, Chemistry building, see <http://www.kc.lu.se/english/visitors/directions/map-over-kemacentrum/detailed-map-of-kemacentrum/> Enter entrance A, walk to the right, walk down the first stairs you encounter, turn 180 degrees, walk c:a 10 meters and turn left. The second door on the right is the dungeon.

Teaching activities: L (lecture), Sem (seminar), G (group exercise), Lab, Proj (Project), Ind (Independent studies)

Compulsory activities on this course are marked with C: If you are absent from a compulsory activity without a valid reason you are not guaranteed to complete this part until the next time the course is offered. A valid reason is e.g. that you are ill, but not that you are travelling!

Literature: Hands out (free)

Learning platform Live@Lund

Date	Time	Activity	Compulsory (mark w. C!)	Description	Teacher	Location
We. 27 Sep.	09.00-10.00		C	Introduction, very compulsory	All staff	Dungeon
	10.00-11.00	L	C	About computers and Bash	BC	Dungeon
	11.00-12.00	Lab	C	Text editing and Bash	BC, LKM	Dungeon
	13.00-15.00	Lab	C	Bash	BC	Dungeon
Th. 28 Sept.	09.00-12.00	Lab	C	Bash (the coming week Python starts)	BC, LKM	Dungeon
	12.15-14.00			Education fair - information about Biology courses and programmes	"All teachers"	Ecology Building
	13.30-15.00			Information: Exchange studies	Tina Ledje Kristina Miolin	Heden, Ecology building
Fr. 29 Sept.	09.00-13.00	Lab	C	Bash, awk	BC, LKM	Dungeon
Mo. 2 Oct.	09.00-10.00	L	C	Arithmetics, strings	BC, PV	Dungeon
	10.00-12.00	Lab	C	Arithmetics, strings	BC, PV	Dungeon
	13.00-15.00	Lab	C	Arithmetics, strings	PV	Dungeon
Tu. 3 Oct.	09.00-10.00	L	C	Regular expressions	BC, PV	Dungeon
	10.00-12.00	Lab	C	Regular expressions	BC, PV	Dungeon
	13.00-15.00	Lab	C	Regular expressions	PV	Dungeon
We. 4 Oct.	09.00-10.00	L	C	Tests and file handling	BC, PV	Dungeon
	10.00-12.00	Lab	C	Tests and file handling	BC, PV	Dungeon
	13.00-15.00	Lab	C	Tests and file handling	PV	Dungeon
Th. 5 Oct.	09.00-10.00	L	C	Lists	BC, PV	Dungeon
	10.00-12.00	Lab	C	Lists	BC, PV	Dungeon
	13.00-17.00			No classes		
Fr. 6 Oct.	09.00-10.00	L	C	Dictionaries	BC	Dungeon
	10.00-13.00	Lab	C	Dictionaries	BC, PV	Dungeon
Mo. 9 Oct.	09.00-10.00	L	C	Sets and comprehensions	JW, LKM	Dungeon
	10.00-12.00	Lab	C	Sets and comprehensions	JW, LKM	Dungeon
	13.00-15.00	Lab	C	Sets and comprehensions	JW, LKM	Dungeon
Tu. 10 Oct.	09.00-10.00	L	C	Functions	JW, LKM	Dungeon
	10.00-12.00	Lab	C	Functions	JW, LKM	Dungeon
	13.00-15.00	Lab	C	Functions	JW, LKM	Dungeon
We. 11 Oct.	09.00-12.00	Lab	C	Exercises	JW, LKM	Dungeon
	13.00-15.00	Lab	C	Exercises	JW, LKM	Dungeon
Th. 12 Oct.	09.00-12.00	Lab	C	Exercises	JW, LKM	Dungeon
	13.00-17.00			No classes		
Fr. 13 Oct.	09.00-13.00	Lab	C	Exercises	JW, LKM	Dungeon

Mo. 16 Oct.	09.00-10.00	L	C	Modules	CB, BC	Dungeon
	10.00-12.00	Lab	C	Modules	CB, BC	Dungeon
	13.00-15.00	Lab	C	Modules	CB	Dungeon
Tu. 17 Oct.	09.00-10.00	L	C	Standard modules	BC, CB	Dungeon
	10.00-12.00	Lab	C	Standard modules	BC, CB	Dungeon
	13.00-15.00	Lab	C	Standard modules	CB	Dungeon
We. 18 Oct.	09.00-10.00	L	C	Classes	CB, BC	Dungeon
	10.00-12.00	Lab	C	Exercises	CB, BC	Dungeon
	13.00-15.00	Lab	C	Exercises	CB	Dungeon
Th. 19 Oct.	09.00-12.00	Lab	C	Exercises	CB	Dungeon
	13.00-17.00			No classes		
Fr. 20 Oct.	09.00-13.00	Lab	C	Exercises	CB, BC	Dungeon
Mo. 23 Oct.	09.00-14.00	Lab		Exam	BC, CB	Dungeon
Tu. 24 Oct.	09.00-10.00	Proj	C	Project	BC	Dungeon
	10.00-12.00	Proj		Project	BC	Dungeon
	13.00-15.00	Proj		Project		Dungeon
We. 25 Oct.	09.00-10.00	Proj		Project	BC	Dungeon
	10.00-12.00	Proj		Project		Dungeon
	13.00-15.00	Proj		Project		Dungeon
Th. 26 Oct.	09.00-10.00	Proj	C	Project	BC	Dungeon
	10.00-12.00	Proj		Project		Dungeon
	13.00-15.00	Proj		Project		Dungeon
Fr. 27 Oct.	09.00-13.00	Proj	C	Project presentation	BC	Dungeon