

**Suggested schedule for the course:**

Mondays 8h15-10h00 and Tuesdays 10h15-12h00

Date	Type	Description	
08.09. Mon	theory	Repetition of Linear Algebra & basic QM	Assistants
09.09. Tue	exercise	Exercise 1: Linear Algebra in Quantum Mechanics	Assistants
15.09. Mon	course	Intro & Basis Sets I	UR
16.09. Tue	course	Basis Sets II	UR
22.09. Mon	—	Jeune Fédéral	
23.09. Tue	exercise	Exercise 2: Intro & HF calcs in Psi4	Assistants
29.09. Mon	course	Hartree-Fock I	UR
30.09. Tue	exercise	Exercise 3: Basis sets, De, geom opt.	Assistants
06.10. Mon	course	Hartree-Fock II	UR
07.10. Tue	exercise	Exercise 4: Hartree Fock procedure in detail	Assistants
13.10. Mon	exercise	Mock Exam with Old Written Exam	Assistants
14.10. Tue	exercise	Solutions of Mock Exam + Q&A Session	Assistants
20.10. Mon	—	Fall Break - No Classes	—
21.10. Tue	—	Fall Break - No Classes	—
27.10. Mon	exam	Written Exam I	Assistants
28.10. Tue	course	Configuration Interaction	UR
03.11. Mon	course	Many-Body Perturbation Theory	UR
04.11. Tue	exercise	Exercise 5: Post HF: MPn & CI	Assistants
10.11. Mon	course	Coupled Cluster Theory	UR
11.11. Tue	exercise	Exercise 6: DFT vs HF/MP2	Assistants
17.11. Mon	course	Multireference Methods (Andy)	Andy
18.11. Tue	course	Density Functional Theory (DFT) I	UR
24.11. Mon	exercise	Exercise 7: Trouble Shooting, Pitfalls, traps	Assistants

25.11. Tue	course	DFT II	UR
01.12. Mon	exercise	Exercise 8: PES Scans	Assistants
02.12. Tue	course	DFT III (CP, QM/MM, Demos) & Summary	UR
08.12. Mon	exercise	Exercise 9: Transition States	Assistants
09.12. Tue	exercise	Q&A Session	Assistants
15.12. Mon	exam	Written Exam II	Assistants
16.12. Tue			