1. Basic studies (1st and 2nd year of the BSc curriculum)

Pool: Teaching opportunities for all PhD students with the required skills

Quantitative methods:	Fall 2024	Spring 2024
Programming in Biology (BIO134): Prerequisite: knowledge in Python. Tuesday and/or Thursday afternoon. One or two afternoons per week, including preparation and exam supervision (about 110h = 22 half days or 170h = 34 half days). Contact: Dr. Maria Heimlicher (maria.heimlicher@mls.uzh.ch)	open	
Data analysis in Biology (BIO144): Please see the information on this web page: http://opetchey.github.io/Petchey_uzh_information/#TAing_BIO144 The information of the property		open
The information there includes who to contact for further information. Scientific writing:		
Introduction to scientific writing (BIO149): Core-elective module (2 SWS) for 4 th -semester students of Biology, Biomedicine and Biodiversity. Presence time: Tue 08:00–09:45 (lectures, practical/exercises), 1h per week online coaching via OLAT/e-mail, help with correction of final exam. Prerequisites: Evidence of good writing skills (e.g. a first-author paper, thesis chapter, completion of BIO556 or BIO557 or the Life Science Zurich Writing Fellow Training or a similar program). Contact: Dr. Simon Aeschbacher (simon.aeschbacher@uzh.ch)		open
Practical laboratory courses in Chemistry and Biochemistry:		
<u>Chemistry:</u> Laboratory course CHE171 (basic Chemistry) for students of Biology and Biomedicine, one afternoon per week (150h including preparation). <u>Contact: Dr. Ulrike Wais (ulrike.wais@chem.uzh.ch)</u>		open
Chemistry: Laboratory courses CHE173 (basic Organic Chemistry) for students of Biology and Biomedicine, one afternoon per week (150h including preparation). Contact: Dr. Ulrike Wais (ulrike.wais@chem.uzh.ch)	open	
Chemistry: Laboratory course basic chemistry for medical students. Period: 5 weeks. A) Monday afternoon (3h), Tuesday afternoon (6h), Wednesday morning (3h) or B) Wednesday afternoon (3h), Thursday afternoon (6h), Friday afternoon (3h) workload 150 hours including preparation. Students with good knowledge of German preferred. Contact: Dr. Ulrike Wais (ulrike.wais@chem.uzh.ch)	open	
Biochemistry: Teaching contribution to laboratory courses BCH203, 205 and for medical students. Contact: Dr. Séverine Lobet (s.lobet@bioc.uzh.ch)	open	open
Klinische Chemie (Labormedizin): Blutzuckermessung oder Blutgasanalytik an zwei verschiedenen Geräten und Vergleich der Messpräzision. Voraussetzung: medanalytisches Interesse und gute Deutschkenntnisse. Umfang: 30 Std., nachmittags in den letzten 2 Wochen des Semesters im Dez. Kontakt: Dr. Regula Steiner (regula.steiner@usz.ch)	open	

Practical courses in Molecular and Cell Biology:	Fall 2024	Spring 2024
<u>Classical and molecular genetics</u> (BIO111): Prerequisite: Basic knowledge in classical and/or molecular genetics. Course		
language is German. However, also assistants only speaking English are	open	
welcome. Practical consists of two parts. Part-1 (Classical genetics): 50h (12 half-days,		
including preparation), 3 weeks (Thursday full day, Monday and Friday		
afternoon). Part-2 (Molecular genetics): 43h (8 half-days, including		
preparation), 4 weeks (Thursday and Friday afternoon). Teaching can be done		
in one or in both parts. Additional teaching hours (up to 25) possible. Contact: Dr. Monika Hediger (monika.hediger@mls.uzh.ch)		
Cell Biology (BIO112):		
Practical courses in <u>yeast</u> cell biology. Prerequisites: Basic knowledge of	open	
genetics and preferably simple light microscopy. The duties include two half		
days of teaching (10h) and one day of preparation/self-study (10h). A small		
introduction will be given in the week prior to the practical. Teaching days		
are probably in the first week of December.		
Contact: Dr. Stephen Huisman (stephen.huisman@mls.uzh.ch) Cell Biology (BIO112):		
Practical courses in plant cell biology. Prerequisites: Knowledge in plant cell	open	
biology, plant physiology and plant tissue anatomy necessary.		
2 half days teaching, 2 half-days preparation / cleaning and one half-day		
repetition (content of the practicals and what to do).		
Contact: Dr. Célia Jaeger-Baroux (cbaroux@botinst.uzh.ch)		
Molecular Biology Course for Biology and Medicine (BIO 260)		open
Prerequisite: practical knowledge of the basic molecular methods taught in this course week, including PCR, cloning, plasmid DNA handling,		
sequencing, cell culture and bacterial culture handling, protein purification		
using tag affinity, SDS-PAGE, Western. The course is organized in about 8		
groups of two, course language is English. Period: Jan/Feb 2024.		
50 teaching hours.		
Contact: Dr. George Hausmann (george.hausmann@mls.uzh.ch)		
Humangenetik für Medizinstudierende		open
Prerequisite: Basic knowledge in genetics and molecular techniques (DNA extraction, PCR). course language is German.		
5 afternoons (25 teaching hours).		
Contact: Dr. Daniel Bopp (daniel.bopp@mls.uzh.ch)		
Practical courses in Animal Behaviour (BIO122):		
Prerequisite: basic knowledge in data analysis. Course language German or		open
English. The practical teaches methods how to register behaviour and analyse		
the data. Practical is organized in 3 groups (Monday group, Thursday group,		
Friday group), with three afternoons each (each afternoon corresponds to 5 hours). Total 9 afternoons/semester.		
Contact: Prof. Dr. Marta Manser (marta.manser@jeu.uzh.ch)		
Practical courses in Microbiology, Immunology, Virology (BIO138): Microbiology, 4 half days, contact: Prof. Dr. Leo Eberl (leberl@botinst.uzh.ch)		
Virology, 2 half days, contact: Prof. Dr. Ben Hale (hale.ben@virology.uzh.ch)	open	
Immunology, 2 half days, contact: Prof. Dr. Ch. Münz (christian.muenz@uzh.ch)		

Concepts in Viruses and Infections (BIO137):	Fall 2024	Spring 2024
The broad goal for students is to understand science as it is practiced, rather than solving formulated problems from a textbook. Students in small groups (eg 3 students) work out concepts under the guidance of a tutor. Thereby students experience that science is an open-ended problem-solving activity, and research is not complete, no matter how many experiments have been conducted. Science is open to different viewpoints, formulates concepts and empirically tests hypotheses. Tutors instruct students that science is all about the best arguments created in a logical and reproducible manner. Importantly, students experience that science also involves persuasion, a deeply social process and an essential one for students to understand the nature of scientific theories and paradigm shifts. Time: 4 Wednesday afternoons in December. 30 teaching hours for the tutor (15 h preparation, 15 h presence time). Contact: Prof. Dr. Urs Greber (urs. greber@mls.uzh.ch)	open	
Einführung in die Biomedizin (BME111)		
Lesen, Korrektur und Beurteilung von Semesterarbeiten und Reviews zu grundlegenden physiologischen Themen. Language: German. Teil 1: Lesen/Korrektur Semesterarbeit: Ende Oktober, 8 Stunden Teil 2: Lesen/Korrektur Review Mitte-Ende November, 8 Stunden Teil 3: Beurteilung/Abschluss: Anfang-Mitte Dezember, 8 Stunden Contact: phd.teaching@biol.uzh.ch	open	
Practical courses in Histology (BME 247):		
Prerequisite: knowledge of microscopic anatomy of human organs and tissues at the level of light microscopy, ideally teaching assistants have themselves completed BIO145, BME247 or a similar course in histology. Language: German. 1 student needed. Presence teaching hours: 3x2, spring semester., Thu 8:00-9:30. In addition up to 9 hours for answering of individual email questions asked by students working with the virtual microscope Biolucida. <i>Contact: Prof. Dr. David P. Wolfer (david.wolfer@anatomy.uzh.ch)</i>		open
Courses in the Life science Zurich Learning Center (LSLC)		
Courses for high school (Gymnasium) students focusing on modern themes in biology. The list of courses that can be taught is here: https://www.lifescience-learningcenter.uzh.ch/de/mittelschulen.html. If you choose to teach some of these courses, you have to commit to at least 50 hours of teaching for the LSLC (approximately 5 full day courses), plus 1/2 or 1 day of training. You will still have to teach at least 25 hours in Basic studies. For the LSLC courses, it is necessary to speak and understand German. For more information on this option, Contact:Prof. Daniel Kiper: (danielch.kiper@lifescience.uzh.ch)	open	open
PHZH SEK I Exercises in Biology		
Prerequisite: Knowledge on molecular biology (Master degree in biology, biomedicine, biochemistry or equivalent). German speaking required. Autumn semester, first 4 weeks, every Friday 10-12. Total amount of time needed: 24 hrs, including preparation. Contact: Dr. Tinri Aegerter (tinri.aegerter@mls.uzh.ch)	open	

Exam supervision	Jan/Feb 2024	June/July 2024
Option 1: You apply for 25, 50 or 75 hours in 1-3 consecutive exam periods (exam periods: Jan/Feb calendar weeks 2-5, June/July calendar weeks 24-27). You will be allocated 25 hours in each exam period.	open	open
Prerequisite: You are available any day and time during these exam periods. Option 2: You apply for 5-20 hours for the upcoming exam period, to complete your teaching duties in basic studies. You provide the following infor-		
mation: number of hours needed, already planned/done teaching hours in basic studies, final PhD year. Contact: phd.teaching@biol.uzh.ch		

Teaching opportunities mainly for PhD students of the respective field

Practical courses in Physiology and Histology:	Fall 2024	Spring 2024
Physiology: Organised in BME682, package of 160h of teaching physiology to medical students, distributed over 4 semesters; restricted access. Contact: Helen Girard (helene.girard@uzh.ch)	open	open
Histology: Teaching histology to medical students. Only for PhD students associated with the Institute of Anatomy or with good knowledge in histology. Contact: Natascha Lier (natascha.lier@anatomy.uzh.ch)	open	open
Practical courses of the VetSuisse Faculty:		
Teaching in the basic studies modules of the BSc in Veterinärmedizin. Contact: Prof. Dr. Thomas Lutz (tomlutz@vetphys.uzh.ch)	open	open
Exercises and practical courses in mathematics:		
STA121 Introduction to Statistics MAT141 Linear Algebra für die Naturwissenschaften* MAT182 Analysis für die Naturwissenschaften* Tasks: Weekly correction of exercises and if offered midterm exam (solutions are provided); the exercises are uploaded by the students and corrected by the PhD on the tablet (own or provided); work load 100 hours. Possibility to help with the supervision and corrections of the exam (January); work load additional 20 hours. Prerequisites: having passed the corresponding (or an equivalent) course with very good marks. Course language: German. However, also assistants only speaking English are welcome. Contact: assi.admin@math.uzh.ch	open	
STA110 Probability STA120 Introduction to Statistics MAT183 Stochastik für die Naturwissenschaften* Tasks: Weekly correction of exercises and if offered midterm exam (solutions are provided); the exercises are uploaded by the students and corrected by the PhD on the tablet (own or provided); work load 100 hours. Possibility to help with the supervision and corrections of the exam (June); work load additional 20 hours. Prerequisites: having passed the corresponding (or an equivalent) course with very good marks. * Course language: German. However, also assistants only speaking English are welcome. Contact: assi.admin@math.uzh.ch		open

Exercises and practical courses in physics:	Fall 2024	Spring 2024
Exercises and practical courses in PHY117/127 (physics for life sciences),	open	open
PHY118/128 (natural sciences) and physics for (vet) medicine. A solid	•	•
background in physics is required (BSc degree in physics or related field).		
Course language is mostly German but there are slots for assistants speaking only English as well.		
Contact: Dr. Matthias Hengsberger (matthias.hengsberger@physik.uzh.ch)		
Practical courses in other Biology modules (for students of the involved re-		
search groups):		
BIO113 "Evolution und Biodiversität I"	open	open
BIO121 "Evolution und Biodiversität II"		
BIO123 "Quantitative and Molecular Systems Biology"		
BIO125 "Development of multicellular systems"		
BIO131 "Form und Funktion der Pflanzen"		
BIO133 "Evolutionary Anthropology"		
EEE102 (BIO141) "Introduction to Ecology"		
BIO142 "Entwicklungsbiologie"		
BIO143 "Neurobiologie"		
BIO148 "Paläontologie"		

2. Block courses and special lectures

Scientific Writing for Organismal Biologists (BIO556):

Attendance during 7 lectures (2h each) and supervision of 2 students. Supervision includes detailed reviewing of thesis sections written by the course participants. Total commitment for the whole semester is around 60 hours. Prerequisites: high level of English and good writing skills. Preferably, TAs are in the last stage of their PhD and bring past experience with writing and publishing. More junior students are accepted if they possess well-developed writing skills. To apply, a letter of motivation (1 A4-page) including the contact of a referee is required. Contact: Ursina Tobler (ursina.tobler@ieu.uzh.ch)

Block courses

- Ask your official or direct supervisor about your possibilities/duties to teach in block courses.
- Don't ask module leaders of block courses outside your research area. If there is need, you will be informed.

3. Requirements and procedure

Check on the form "Planning teaching activities". http://www.biologie.uzh.ch/de/Studium/Doktorat.html - 3

4. General Questions

Dr. Sabine Jacob, phd.teaching@biol.uzh.ch