### Lecture Schedule for Master's Program in Chemistry and Molecular Sciences
**Fall semester 2023**
*Weeks 1-14, beginning September 18th, 2023*

#### Specializations
- a Chemical Biology
- b Sustainable Chemistry
- c Advanced Synthesis
- d Nuclear and Radiochemistry
- e Spectroscopy of Materials
- g General Chemistry
- pure Electives (gray)

### Monday
<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture</th>
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| 08:15-09:00 | Weeks 8-14  
Molecular Electronics  
PD Dr. Shi-Xia Liu  
N213  
1.5 ECTS |
| 09:15-10:00 | Weeks 1 + 3-7 (10-12 am)  
c,e +g  
Advanced NMR  
Prof. J. Furrer  
N213  
3 ECTS |
| 10:15-11:00 | Weeks 1 + 3-7 (plus Wed 8.11.  
8:15-10:00)  
c,e +g  
Advanced NMR  
Prof. J. Furrer  
N213  
3 ECTS |
| 11:15-12:00 | Clinical Chemistry and Laboratory Medicine – An Introduction  
Dr. C. Fuhrer  
N213  
1.5 ECTS |

### Tuesday
<table>
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<th>Time</th>
<th>Lecture</th>
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| 12:15-13:00 | Weeks 1-7  
a+g  
Chemical Biology I  
Prof. J.-L. Reymond, Dr. S. Javor  
S379  
3 ECTS |

### Wednesday
<table>
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<th>Time</th>
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| 13:15-14:00 | Weeks 1-7  
g  
Advanced Spectroscopy  
Prof. S. Schürch  
S379  
1.5 ECTS |
| 14:15-15:00 | Spectroscopy - non-linear properties, lasers, time-resolved spectroscopy  
Prof. N. Banerji  
N213  
3 ECTS |
| 15:15-16:00 | Weeks 2-14 (plus Wed, 20.9. all day)  
b+g  
Operando Methods in Sustainable Chemistry and Catalysis  
Dr. O. Safonova  
N213  
3 ECTS |

### Thursday
<table>
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<th>Time</th>
<th>Lecture</th>
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| 08:15-09:00 | Weeks 1-14  
d+g  
Nuclear / Radiochemistry  
Prof. A. Türler  
N213  
3 ECTS |
| 09:15-10:00 | Weeks 1-14  
e+g  
Specialist Course: Carbon Cycle  
Prof. F. Joos, Prof. T. Frölicher, Dr. Ch. Laufkötter  
A097 ExWi  
4 ECTS |
| 10:15-11:00 | Weeks 1-14  
e+g  
Chemical Crystallography  
PD Dr. S. Grabowsky  
S481  
3 ECTS |
| 11:15-12:00 | Weeks 1-14  
e+g  
Radicals in Organic Synthesis  
Dr. F. Dénes  
S379  
3 ECTS (starting in the 2nd week of semester) |

### Friday
<table>
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<th>Time</th>
<th>Lecture</th>
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| 08:15-09:00 | Weeks 1-14  
d+g  
Environmental Radionuclides and Nuclear Dating  
Prof. S. Szidat  
S481  
1.5 ECTS |
| 09:15-10:00 | Weeks 1-14  
d+g  
Scientific Writing  
Dr. O. Serkédi  
S379  
2 ECTS |
| 10:15-11:00 | Weeks 1-14  
a  
Specialist Course - Introduction to Medical Radiation Physics  
Prof. P. Scampoli  
Prof. S. Braccini  
B001 ExWi  
4 ECTS |
| 11:15-12:00 | Weeks 1-14  
e+g  
Advanced Spectroscopy - non-linear properties, lasers, time-resolved spectroscopy  
Prof. N. Banerji  
N213  
3 ECTS |

Under each lecture it is mentioned in which specialization (a, b, c, d, e, g) the course can be accredited as core subject course. The gray marked lectures are not assigned to any specialization and always count as electives.
You will find the exam dates on the exam schedules on this website:
Please register for the exams through KSL (as of the beginning of the semester).

The digital lecture plan provides you with all the details regarding the various lectures. It can be found here:
http://www.philnat.unibe.ch/studies/study_programs/master_s_in_chemistry_and_molecular_sciences/index_eng.html#pane35265

Electives: Besides the electives from the chemistry program of the DCBP, you can also choose courses from the Molecular Life Science master’s program or the Physics master’s program at the University of Berne or from the Chemistry master’s program of the University of Fribourg.
Molecular Life Science master’s program
Physics master’s program

In accordance with the director of studies it is even possible to visit master courses from other Universities and to have them accredited. In this case please contact the student administration office in room S358.