### Master of Science in Life Sciences (MSc) - Schedule 2022/2023 - Applied Biosciences (MSc HES-SO Valais-Wallis Sion)

#### Course Completions
Minimum 3 modules (15 ECTS)

#### Cluster-specific Modules
- Minimum 3 modules (9 ECTS)
- 30 ECTS

#### Additional Offers
- Optional
- Compulsory

#### Water Topics
- Compulsory
- 40 ECTS

### Exams Autumn Semester 2022

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Module</th>
<th>Location</th>
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<tbody>
<tr>
<td>14.11.2022</td>
<td>14.20.00</td>
<td>B3</td>
<td>Sion, room bld</td>
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<tbody>
<tr>
<td>21.11.2022</td>
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<tr>
<td>28.11.2022</td>
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### Exams Spring Semester 2023

<table>
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<th>Date</th>
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<tbody>
<tr>
<td>04.09.2023</td>
<td>14.20.00</td>
<td>B2</td>
<td>Sion, room bld</td>
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</table>

### Autumn Semester

- **Genomics and genome analysis**
  - Bruno Schwyzer
  - b.schwyzer@hevs.ch
  - 4 ECTS
  - Autumn
  - Sion, (15 N200)

- **Quality Management & Regulatory Affairs**
  - Marc Pfeifer
  - m.pfeifer@hevs.ch
  - 4 ECTS
  - Autumn
  - Sion, (15 N200)

- **Sustainable Biotechnology**
  - Fabian Fischer
  - f.fischer@hevs.ch
  - 4 ECTS
  - Autumn
  - Sion, (15 N200)

- **Pharmaceutical Sciences Technologies**
  - Diogenes Nguigue
  - dnguiique@hevs.ch
  - 4 ECTS
  - Spring
  - Sion, (15 N200)

### Master Thesis Compulsory
- **ECTS**
- **Choice**
- **Semester**
- **Location**

### Core Competences Data & Business by MBSL
- **ECTS**
- **Choice**
- **Semester**
- **Location**

### Core Competences - Local Teaching (LT)
- **B1** Busines Administration for Life Sciences
  - Riccardo Bonzini
  - riccardo.bonzini@hevs.ch
  - Part of B1
  - Autumn
  - Sion, (15 N200)

- **B2** Management and Leadership for Life Sciences
  - Riccardo Bonzini
  - riccardo.bonzini@hevs.ch
  - Part of B2
  - Autumn
  - Sion, (15 N200)

### Cluster-specific Modules - Biopharma/GP by MBSL
- **ECTS**
- **Choice**
- **Semester**
- **Location**

### Additional Offer from other Clusters by MBSL
- **ECTS**
- **Choice**
- **Semester**
- **Location**

1) compulsory (c), compulsory optional (co), optional (o)

2) CC and CS are compulsory optional (co) modules - for the CC modules you have to take 15 ECTS out of 21 ECTS, for the CS-modules you have to take mininal 9 ECTS

3) The common part (2 ECTS) is given by distance learning on Friday. The local teaching (1 ECTS, LTD or LTb) is given in Sion.

Lausanne, 05/06/2022
<table>
<thead>
<tr>
<th>Week</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>22.08.2022</td>
<td>08:15-09:50</td>
<td>10:15-11:50</td>
<td>13:00-14:35</td>
<td>15:00-16:35</td>
<td>08:15-09:50</td>
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<td>08:15-09:50</td>
<td>10:15-11:50</td>
<td>13:00-14:35</td>
<td>15:00-16:35</td>
<td>08:15-09:50</td>
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<td>24.08.2022</td>
<td>08:15-09:50</td>
<td>10:15-11:50</td>
<td>13:00-14:35</td>
<td>15:00-16:35</td>
<td>08:15-09:50</td>
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**Specialization Modules**

<table>
<thead>
<tr>
<th>Module</th>
<th>ECTS</th>
<th>Choice</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Chemistry and Development</td>
<td>4</td>
<td>c</td>
<td>Autumn</td>
</tr>
<tr>
<td>Process Design and Optimisation</td>
<td>4</td>
<td>c</td>
<td>Spring</td>
</tr>
<tr>
<td>Chemical Engineering &amp; Process Intensification</td>
<td>4</td>
<td>c</td>
<td>Autumn</td>
</tr>
<tr>
<td>Safety, Process Production and Quality</td>
<td>4</td>
<td>c</td>
<td>Autumn</td>
</tr>
<tr>
<td>Analytical and Characterization</td>
<td>4</td>
<td>c</td>
<td>Spring</td>
</tr>
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**Core Competences - Local Teaching (LT)**

<table>
<thead>
<tr>
<th>Module</th>
<th>ECTS</th>
<th>Choice</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Administration for Life Sciences</td>
<td>3</td>
<td>co</td>
<td>Autumn</td>
</tr>
<tr>
<td>Management and Leadership for Life Sciences</td>
<td>3</td>
<td>co</td>
<td>Autumn</td>
</tr>
<tr>
<td>Innovation and Project Management</td>
<td>3</td>
<td>co</td>
<td>Autumn</td>
</tr>
<tr>
<td>Public Society</td>
<td>3</td>
<td>co</td>
<td>Autumn</td>
</tr>
<tr>
<td>Handling and Visualizing Data</td>
<td>3</td>
<td>co</td>
<td>Spring</td>
</tr>
<tr>
<td>Design and Analysis of Experiments</td>
<td>3</td>
<td>co</td>
<td>Spring</td>
</tr>
<tr>
<td>Modelling and Exploration of Multivariate Data</td>
<td>3</td>
<td>co</td>
<td>Spring</td>
</tr>
<tr>
<td>Data and Ethics</td>
<td>3</td>
<td>c</td>
<td>Spring</td>
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**Clusters of Competence**

<table>
<thead>
<tr>
<th>Module</th>
<th>ECTS</th>
<th>Choice</th>
<th>Semester</th>
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<tbody>
<tr>
<td>Molecular Science</td>
<td>3</td>
<td>c</td>
<td>Autumn</td>
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<tr>
<td>Surface Characterization</td>
<td>3</td>
<td>c</td>
<td>Autumn</td>
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<tr>
<td>Polymers and Applications</td>
<td>3</td>
<td>c</td>
<td>Autumn</td>
</tr>
<tr>
<td>Green Chemistry</td>
<td>3</td>
<td>c</td>
<td>Spring</td>
</tr>
<tr>
<td>Chemistry and Energy</td>
<td>3</td>
<td>c</td>
<td>Spring</td>
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<tr>
<td>Industrial Chemical Process Safety</td>
<td>3</td>
<td>c</td>
<td>Summer</td>
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**Additional Offer from other Clusters by MSLS**

<table>
<thead>
<tr>
<th>Module</th>
<th>ECTS</th>
<th>Choice</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>Modelling of Complex Systems</td>
<td>3</td>
<td>c</td>
<td>Autumn (even) or Autumn (odd)</td>
</tr>
<tr>
<td>Compound Profiling in Pharmaceutical Drug Discovery</td>
<td>3</td>
<td>c</td>
<td>Autumn (even) or Autumn (odd)</td>
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<tr>
<td>Design of Biopharmaceutical Production Facilities</td>
<td>3</td>
<td>c</td>
<td>Winter</td>
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**Course Description**

1. compulsory (c), compulsory optional (co), optional (o)
2. CC and CS are compulsory optional (co) modules - for the CC modules you have to take 10 ECTS out of 21 ECTS, for the CS-modules you have to take min. 9 ECTS
3. The common part (2 ECTS) is given by distance learning on Friday. The local teaching (1 ECTS, LTD or LTB) is given in Fribourg.

For X01, X02 and X03, individual deadlines and defences are communicated to students on the exam timetable.
### Master of Science in Life Sciences HES-SO Schedule 2022/2023 - Viticulture & Enology (VE, Changins)

**Master Thesis**
- **ECTS**: 40
- **Location**: Changins
- **Semester**: Compulsory
- **Additional Offer**: Yes (CS 6 ECTS)

**Core Competences - Local Teaching (LT)**
- **ECTS**: 30
- **Location**: Changins
- **Semester**: Compulsory

**Cluster-specific Modules**
- **ECTS**: 30
- **Location**: Changins
- **Semester**: Optional

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**Schedule**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Module</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>24.11.2022</td>
<td>08:30-10:30</td>
<td>B1 (Changins)</td>
<td>Changins</td>
</tr>
<tr>
<td>21.11.2022</td>
<td>08:30-10:30</td>
<td>B2 (Changins)</td>
<td>Changins</td>
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<tr>
<td>30.11.2022</td>
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<td>B3 (Changins)</td>
<td>Changins</td>
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<tr>
<td>07.12.2022</td>
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<td>B4 (Changins)</td>
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<td>14.12.2022</td>
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<td>Re-exam F1 (Changins)</td>
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<tr>
<td>21.12.2022</td>
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<td>Re-exam B4 (Changins)</td>
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<td>28.12.2022</td>
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<td>Re-exam B5 (Changins)</td>
<td>Changins</td>
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**Study Plan**

- **Lundi du Jeûne**: 05.01.2023
- **Easter Monday**: 17.04.2023
- **Pentecost**: 21.05.2023

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**Study Start Dates**

- **Winter**: 24.11.2022
- **Summer**: 27.03.2023

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**Additional Offer**

- **Choice 1)**
- **Choice 2)**

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**Contact Person**

- **Mariane Weikert**: mariane.weikert@changins.ch

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**Notes**

1) compulsory (c), compulsory optional (co), optional (o)
2) CC and CS are compulsory optional (co) modules - for the CC modules you have to take 15 ECTS out of 21 ECTS, for the CS-modules you have to take a minimum of 9 ECTS
3) The common part (2 ECTS) is given by distance learning on Friday. The local teaching (1 ECTS, Lab I-IV) is given in Changins in Autumn and online in Spring.

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**Module Overview**

- **Specialization Modules**
  - **ECTS**: 15
  - **Location**: Changins

- **Core Competences Minimum 5 modules (15 ECTS)**
  - **Location**: Changins

- **Modules**
  - **Module registration**: 20.06 - 17.07 / 05.12-08.01

- **Additional Offer**: Optional

- **Cluster-specific Modules Minimum 3 modules (9 ECTS)**
  - **Location**: Changins
  - **Semester**: Optional

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**Master of Science in Life Sciences HES-SO Schedule 2022/2023 - Viticulture & Enology (VE, Changins)**

**Complementary Courses by CC modules**
- **ECTS**: 30
- **Location**: Changins

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**Contact Person**

- **Mariane Weikert**: mariane.weikert@changins.ch

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**Notes**

1) compulsory (c), compulsory optional (co), optional (o)
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