## Module 1 - Foundations in epidemiology

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Semester</th>
<th>CP</th>
<th>Responsible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epidemiological concepts</td>
<td>AS1</td>
<td>3</td>
<td>CHL</td>
</tr>
<tr>
<td>Epidemiological methods</td>
<td>AS1</td>
<td>4</td>
<td>DMA</td>
</tr>
<tr>
<td>Chronic diseases epidemiology</td>
<td>AS1</td>
<td>1</td>
<td>NCP</td>
</tr>
<tr>
<td>Environmental epidemiology</td>
<td>AS1</td>
<td>1</td>
<td>MRO</td>
</tr>
<tr>
<td>Qualitative and mixed methods</td>
<td>AS1</td>
<td>2</td>
<td>MES</td>
</tr>
<tr>
<td>Producing, interpreting and using evidence in health care</td>
<td>SS1</td>
<td>2</td>
<td>XBC</td>
</tr>
<tr>
<td>GIS in health and exposure sciences</td>
<td>SS1</td>
<td>2</td>
<td>DVI/CDE</td>
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</table>

## Module 2 - Biostatistics and computing

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Semester</th>
<th>CP</th>
<th>Responsible</th>
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</thead>
<tbody>
<tr>
<td>Biostatistics with Exercises</td>
<td>AS1</td>
<td>3</td>
<td>CSR</td>
</tr>
<tr>
<td>Statistical modelling</td>
<td>AS1</td>
<td>3</td>
<td>PVO</td>
</tr>
<tr>
<td>Data analysis in epidemiology</td>
<td>SS1</td>
<td>3</td>
<td>ARO</td>
</tr>
<tr>
<td>Demography</td>
<td>SS1</td>
<td>2</td>
<td>TFU/TSM</td>
</tr>
<tr>
<td>Statistical methods in trial design</td>
<td>SS1</td>
<td>2</td>
<td>GLA</td>
</tr>
<tr>
<td>Research Data Management</td>
<td>SS1</td>
<td>2</td>
<td>NMA</td>
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## Module 3 - Global public health

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Semester</th>
<th>CP</th>
<th>Responsible</th>
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</thead>
<tbody>
<tr>
<td>Public health in light of the sustainable development goals</td>
<td>AS1</td>
<td>1</td>
<td>NKU</td>
</tr>
<tr>
<td>Public health across the life course</td>
<td>AS1</td>
<td>2</td>
<td>JDR</td>
</tr>
<tr>
<td>Adv. in infection biology, epidemiology and global public health</td>
<td>AS/SS</td>
<td>1</td>
<td>MTA/UTJ</td>
</tr>
<tr>
<td>Key issues in public and international health</td>
<td>AS1</td>
<td>2</td>
<td>PSN</td>
</tr>
<tr>
<td>Interdisciplinary research in epidemiology and infection biology</td>
<td>AS</td>
<td>1</td>
<td>UTJ</td>
</tr>
<tr>
<td>Health systems</td>
<td>AS1</td>
<td>2</td>
<td>KWT</td>
</tr>
<tr>
<td>Health financing and economic evaluation</td>
<td>SS1</td>
<td>1</td>
<td>STO</td>
</tr>
</tbody>
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### B. Module 4

**Transferable skills and competences (5 CP to choose, incl. the two compulsory courses)**

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Semester</th>
<th>CP</th>
<th>Responsible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good scientific conduct in health sciences</td>
<td>SS1</td>
<td>1</td>
<td>CHL</td>
</tr>
<tr>
<td>Application to an ethics committee</td>
<td>SS1</td>
<td>1</td>
<td>CHB</td>
</tr>
<tr>
<td>Scientific writing</td>
<td>SS1</td>
<td>2</td>
<td>BHA</td>
</tr>
<tr>
<td>Project management</td>
<td>SS</td>
<td>2</td>
<td>AHO</td>
</tr>
<tr>
<td>Effective presentation skills</td>
<td>SS</td>
<td>1</td>
<td>MWI</td>
</tr>
<tr>
<td>Meet the professionals</td>
<td>SS</td>
<td>1</td>
<td>CHL</td>
</tr>
</tbody>
</table>

**SUBTOTAL** 40 CP

### C. Optional

**Advances in epidemiology, statistics and public health: students must choose 15 CP**

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Semester</th>
<th>CP</th>
<th>Responsible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical modelling of infectious diseases</td>
<td>SS1</td>
<td>2</td>
<td>MPE/NAC</td>
</tr>
<tr>
<td>Exercise: Interdisciplinary research in epidemiology and infection biology</td>
<td>AS</td>
<td>1</td>
<td>UTJ</td>
</tr>
<tr>
<td>Ecology of infectious disease at the human-animal interface</td>
<td>AS</td>
<td>3</td>
<td>JZI</td>
</tr>
<tr>
<td>Advanced one health methods</td>
<td>SS</td>
<td>2</td>
<td>JZI/NAC</td>
</tr>
<tr>
<td>Current ecological and health issues in Africa</td>
<td>AS</td>
<td>2</td>
<td>UTJ</td>
</tr>
<tr>
<td>Essentials in drug development and clinical trials</td>
<td>SS</td>
<td>2</td>
<td>CHB</td>
</tr>
<tr>
<td>Drug discovery and development for parasitic diseases</td>
<td>AS</td>
<td>2</td>
<td>JKE</td>
</tr>
<tr>
<td>Malaria epidemiology and control</td>
<td>SS</td>
<td>2</td>
<td>TSM</td>
</tr>
<tr>
<td>Medical parasitology and neglected tropical diseases (lecture)</td>
<td>AS</td>
<td>2</td>
<td>PEO</td>
</tr>
<tr>
<td>Medical parasitology and neglected tropical diseases (exercise)</td>
<td>AS</td>
<td>2</td>
<td>PEO</td>
</tr>
<tr>
<td>Bayesian biostatistics and exercises</td>
<td>SS</td>
<td>5</td>
<td>PVO</td>
</tr>
<tr>
<td>Biostatistics (Journal Club)</td>
<td>AS/SS</td>
<td>1</td>
<td>PVO</td>
</tr>
<tr>
<td>Programming in STATA</td>
<td>SS</td>
<td>1</td>
<td>JHA</td>
</tr>
<tr>
<td>Medical entomology</td>
<td>SS</td>
<td>2</td>
<td>PMR</td>
</tr>
<tr>
<td>Health impact assessment</td>
<td>SS</td>
<td>2</td>
<td>ETH ZH</td>
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<tr>
<td>Programme evaluation (starting SS 2019)</td>
<td>SS</td>
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<td>MAH</td>
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<tr>
<td>Climate change and health</td>
<td>SS</td>
<td>1</td>
<td>GCI</td>
</tr>
<tr>
<td>Advanced systematic reviews</td>
<td>AS/SS</td>
<td>4</td>
<td>XBC</td>
</tr>
<tr>
<td>Introduction to R for epidemiological data analysis</td>
<td>SS</td>
<td>1</td>
<td>JHA</td>
</tr>
<tr>
<td>(Current topics in epidemiology) not available for MSc IB und Epim</td>
<td>AS/SS</td>
<td>2</td>
<td>UTJ</td>
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<tr>
<td>Health interventions (Journal Club)</td>
<td>AS/SS</td>
<td>1</td>
<td>MAH</td>
</tr>
<tr>
<td>Introduction to bioinformatics</td>
<td>AS2</td>
<td>2</td>
<td>PAM</td>
</tr>
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</table>

**SUBTOTAL** 43 CP

### Additional Options

Lectures from other fields within the University of Basel in agreement with the supervisor/Swiss TPH AND all lectures offered by Swiss TPH (also lectures from Master in Infection Biology).