# Master Programme in Bioinformatics 2021/2022

<table>
<thead>
<tr>
<th>Period 1</th>
<th>Period 2</th>
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<tbody>
<tr>
<td>210830–211027</td>
<td>211028–220116</td>
<td>220117–220320</td>
<td>220321–220605</td>
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## Courses during the first year

### Biology Background
- Introduction to Bioinformatics, 10 credits (1MB438)
- Molecular Evolution, 5 credits (1MB461)
- Genome Analysis, 10 credits (1MB462)
- Information Management Systems, 10 credits (1DL471)
- Big data in Life Sciences, 5 credits (1TD065)

### Computer Science Background
- Programming in Python, 5 credits (1TD327)
- Database Design I, 5 credits (1DL301)
- Information Management Systems, 10 credits (1DL471)
- Big data in Life Sciences, 5 credits (1TD065)

## Courses during the second year

### Both Backgrounds
- Phylogenetic Analysis, 5 credits (1MB515)
- Proteomics and metabolomics, 5 credits (1KB162)
- Degree Project E in Bioinformatics, 30 credits (1MB830)

### Both Backgrounds
- Population Genomic Analysis, 10 credits (1MB517)
- Applied Bioinformatics, 15 credits (1MB519)

## Optional courses

- Literature Project in Bioinformatics, 5 credits (1MB782)
- Literature Project in Bioinformatics, 10 credits (1MB783)
- Research Training in Bioinformatics, 10 credits (1MB803)
- Research Training in Bioinformatics, 15 credits (1MB804)
- Research Training in Bioinformatics, 20 credits (1MB805)
- Project Work in Bioinformatics, 10 credits (1MB820)
- Project Work in Bioinformatics, 20 credits (1MB822)
- Computer Assisted Image Analysis I, 5 credits (1TD396)
- Scientific Visualisation, 5 credits (1TD389)
- Algorithms and Data Structures I, 5 credits (1DL210)

* (1MB720) Degree project D in Bioinformatics is only for students studying towards a one-year master.
** Optional courses are given in different periods and can replace other courses in the programme.

Note that an MSc degree may contain max 30 credits from basic level courses.