Master's Programme Ecology
‘Ecology and Evolution’ Curriculum 2018-2019

The Master’s programme in Ecology and Evolution is a joint master’s programme of the Vrije Universiteit Amsterdam and the University of Amsterdam. The track offers the same programme to students of both universities. Lecturers from VU and UvA participate in each course. Students of both universities are automatically registered as a ‘bijvakstudent’ (external student) at the other university.

Time table of the programme (with course location code in brackets)

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<tr>
<th>Year 1 - Semester 1</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
<th>January</th>
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<tbody>
<tr>
<td>Current Trends in Ecology &amp; Evolution (UvA/VU)</td>
<td>Ecological Data Analysis (VU)</td>
<td>Environments through Time (UvA)</td>
<td>Evolutionary Genomics (VU)</td>
<td>Global Ecology &amp; Biodiversity (UvA)</td>
<td>Invasion &amp; Conservation Biology (UvA)</td>
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<th>February-June</th>
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<tr>
<td>Year 1 - Semester 2 - 1st Internship (VU/UvA)</td>
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<th>Year 2 - Semester 1 &amp; 2</th>
<th>September-June</th>
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<td>Scriptie</td>
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<td>2nd Internship</td>
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<td>Exchange option: International Master of Biodiversity Ecology and Evolution (IMABEE)</td>
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<tr>
<td>Masterclass: Nature of Life (UvA/VU)</td>
<td>Ecological &amp; Evolutionary Modeling (UvA)</td>
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The two-year programme is full-time, covering 120 ec. Courses are mainly scheduled in the first semester. The remainder of each year is spent on two research projects and a literature thesis. The programme has the following four components:

1) Compulsory courses (18 ec in total)
The following courses are compulsory for all students starting in the programme in September 2017 (between brackets the principal organizer and study load):
   - Current Trends in Ecology & Evolution (UvA, 6 ec)
   - Ecological Data Analysis (VU, 6 ec)
   - Masterclasses in Ecology and Evolution (UvA, 3 ec)
   - Scientific Writing in English (VU, 3 ec)

2) Elective ecological courses (12 to 18 ec in total)
Students of both universities take at least 12 and at most 18 ec of elective ecological courses. If they choose to take 12 ec the total time spent on research projects will be expanded by 6 ec. Elective courses offered in the Ecology and Evolution curriculum are:
   - Environments through time (UvA, 6 ec)
   - Evolutionary Genomics (VU, 6 ec)
   - Global Ecology & Biodiversity (UvA, 6 ec)
   - Cooperation & Conflict in Nature (VU, 6 ec)
   - Invasion & Conservation Biology (UvA, 6 ec)
   - Tropical Ecology (VU, 6 ec)
Other options include:
- Grand Challenges of Human-Ecosystem Interactions (VU, 6 ec)
- Metropole Ecology (VU, 6 ec)
- Applied Water Science (UvA, 6 ec)
- Microbial Ecology (UvA, 6 ec)
- Biotic Interactions (UvA, 6 ec)
- Microbial Ecology (UvA, 6 ec)
- Benthic Ecosystems (UvA, 6 ec)

3) Research projects (72 to 78 ec in total)
Students carry out two research projects/internships. Depending on the number of credits (ec) the student obtains in elective courses, both internships together will cover 72 or 78 ec. The minimum duration of a research project is 30 ec. The first internship has to be carried out at the VU or UvA. Though not obligatory, students are encouraged to complete the second internship elsewhere, at another university or research institute in Amsterdam, elsewhere in The Netherlands or abroad. Both projects focus on an ecological and/or evolutionary subject, which can range from using a molecular, ecophysiological, behavioural to theoretical or ecosystems approach, or a combination thereof. Societally oriented projects performed elsewhere, dealing with an ecological problem are accepted, provided that they include sufficient academic level, clear research questions and proper supervision.

4) Literature thesis (12 ec)
Students are required to write a literature thesis of 12 ec. The literature thesis can focus on a fundamental ecological question, but may also take a more applied or societal approach. You can plan your Literature Thesis, which should ideally take up two months whenever you have space in your programme, for example when you are not following courses and not doing your internship. Your master coordinator will help you to plan your choices by making a personal 'masterplan' with you.

Possible extra-curricular components in other programmes
Students are allowed to take ecological courses from other master’s programmes instead of the elective courses offered in the Ecology and Evolution programme. These must be ecological courses or courses otherwise fitting to their profile (and may need approval by the Examination Board); examples include:
- Marine Biology and Oceanography (NIOZ, 4 ec)
- Applications in GIS and Remote Sensing (UvA, 6 ec)
- Ecological Water Management (UvA, 3 ec)
- Benthic Ecosystems (UvA, 6 ec)
- Coral Reef Ecology (UvA, 6 ec)
- Biological Oceanography (UvA, 6 ec)

International Master in Biodiversity, Ecology and Evolution
Double degree, meaning you will receive a diploma from VU MSc Ecology as well as the partner university MSc. The first year (60 ec) you follow the regular programme at VU, the second year (60 ec) you do courses and an internship at either:
- University of Århus (Denmark),
- University of Göttingen (Germany)
- University of Rennes (France)
For more information: http://www.imabee.eu

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