Opasraportti


International Master’s Degree Programme in Ecology and Population Genetics (ECOGEN)

MSc degree specialisation is ecology or bioscience. MSc degree (120 ECTS) includes minimum 80 ECTS major studies in Ecology or Genetics. Degree does not include compulsory minor. Instead student can choose 40 ECTS optional advanced major courses, optional minors and single courses which are important for the student’s personal study plan.

Specialisation Ecology, Major Ecology 120 ECTS

Compulsory major studies (70 ECTS):

Master of science seminar 750678S 5 ECTS

Final examination in biology 750656S 10 ECTS

Pro gradu thesis in biology 750658S 40 ECTS

Maturity exam 750632S 0 ECTS

Methods in ecology I 755625S 5 ECTS

Methods in ecology II 755629S 5 ECTS

Introduction to molecular ecology 756650S 5 ECTS

Optional major studies (minimum 10 ECTS):
Special seminar in biology  750653S 2-5 ECTS
Special lecture in biology  750654S 2-5 ECTS
Practical training  750615S 10-15 ECTS
Research training  750613S 2-14 ECTS
Research group seminar  750661S 2-5 ECTS
Thursday seminar in biology  750618S 2 ECTS
Kaamos symposium  750629S 2 ECTS
Basic identification of animals  751673S 5 ECTS
Examination on optional topics in biology  750649S 2-6 ECTS
Optional examinations in environmental protection  750699S 2-6 ECTS
Field course in aquatic animals  755621S 5 ECTS
Field course in terrestrial animals  755622S 5 ECTS
Conservation of biodiversity  756647S 5 ECTS
Restoration ecology  755632S 5 ECTS
Winter ecology and physiology  750677S 5 ECTS
Ecological responses to global change and air pollution in the subarctic  756648S 5-8 ECTS
Functional animal ecology  755624S 5 ECTS
Wildlife management and game animal ecology  755628S 5 ECTS
Plant ecology  756644S 5-7 ECTS
Identification of plant species, brief OR  756655S 3 ECTS
Identification of plant species, extensive 756654S 5 ECTS

Field course in ecological botany 756643S 5 ECTS

Soil ecology 756612S 3-5 ECTS

Plant ecophysiology in changing environments 756604S 5-10 ECTS

Optional examinations in environmental protection 750699S 2-6 ECTS

Macro fungi 752616S 3 ECTS

Taxonomy and ecology of plants 752656S 2-4 ECTS

Advanced identification of plant species I 752608S 6 ECTS

Advanced identification of plant species II 752625S 5-8 ECTS

Botanical collection 752662S 2-6 ECTS

Symbiosis 756649S 5 ECTS

**Compulsory studies (bioscience 5 ECTS):**

Molecular methods I 757611S 5 ECTS

**Optional studies (minimum 35 ECTS)**

Information skills for foreign degree students 030008P 1 ECTS

Optional studies can be biology or other subjects

*Specialisation Bioscience, Major Genetics 120 ECTS*

**Compulsory major studies (75 ECTS):**
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<td>Master of science seminar</td>
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<td>Final examination in biology</td>
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<td>Pro gradu thesis in biology</td>
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<tr>
<td>Maturity exam</td>
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<tr>
<td>Molecular methods I</td>
<td>757611S</td>
<td>5</td>
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<tr>
<td>Basics in population genetics</td>
<td>757613SS</td>
<td>5</td>
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<tr>
<td>DNA analysis in population genetics</td>
<td>757618S</td>
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**Optional major studies (minimum 5 ECTS):**

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<tr>
<td>Special seminar in biology</td>
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<td>Kaamos symposium</td>
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<td>Examination on optional topics in biology</td>
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<td>Basics of bioinformatics</td>
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<td>Advanced course in bioinformatics</td>
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<td>Experimental course in evolutionary genomics</td>
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<td>Methods in genomics and genomics evolution</td>
<td>757620S</td>
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Optional studies (minimum 40 ECTS)

Information skills for foreign degree students 030008P 1 ECTS

Optional studies can be biology or other subjects

Quantitative genetics 805338A 5 ECTS

Opintojaksojen kuvaukset