**Updated 24.5.2024 (Changes possible. Please check the latest information in Sisu)**

X = can be completed at any time, no fixed periods and in some cases no fixed years

( ) = can be completed either in the first or second year of MSc studies

# Master's Programme in Integrative Plant Sciences (IPS) degree structure 2023-2026 and a 2-years' model study schedule

*The degree structure 2023-2026 and a two-years' model study schedule for the students, who start in the autumn 2024 (in an even year)*

## MSc degree in Integrative Plant Sciences (IPS), 120 cr

### IPS-100 Integrative Plant Sciences, Advanced studies, 100 cr

**Joint studies in the Master's Programme, 60 cr**

**Alternative modules, 40 cr (choose 2 x 20 cr)**

**IPS-300 Plant Molecular Biology, 20 cr**

**IPS-400 Plants, Genomes and Future Environments, 20 cr**

**IPS-500 Plant and Fungal Diversity, 20 cr**

**IPS-600 Changing Vegetation, 20 cr**

### Optional modules, 0-20 cr (examples)

*Modules from your own MSc programme or from other degree programmes. Please note that you don't have to take any **optional study modules** in your Master's Degree, if you don't want, but instead, you can take individual **optional study units** in the Other studies section in order to get 120 credits in your Master's Degree.*

### Other studies in MSc degree, 0-20 cr (examples)

*Study units from your own MSc programme or from other MSc programmes.*

**Career orientation and professional skills studies (examples, recommended)**

| A two-years' model schedule for 2024-2025 + 2025-2026* | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2024 - 2025 First year | | | | | 2025 - 2026* Second year* (*a tentative model, changes possible) | | | | |
| I | II | III | IV | summer | I | II | III | IV | summer |
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| | | | | | x | x | x | x | |
| | | | x | x | x | x | x | x | |
| | | | x | x | x | x | x | x | |
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| | | | (2.5) | (2.5) | | | | (2.5) | (2.5) |
| x | x | x | x | x | x | x | x | x | |
| x | x | x | x | x | x | x | x | x | |
| x | x | x | x | x | x | x | x | x | |
| x | x | x | x | x | x | x | x | x | |
| x | x | x | x | x | x | x | x | x | |
| x | x | x | x | x | x | x | x | x | |
| | | | x | x | x | | | x | x |
| | | | x | x | x | | | x | x |
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| x | x | x | x | x | x | x | x | x | |
| | | | x | x | x | | | x | x |
| | | | x | x | x | | | x | x |
| | | | x | x | x | x | x | x | |
| | | (2,5) | (2,5) | | | | (2,5) | (2,5) | |
| | | (2,5) | (2,5) | | | | (2,5) | (2,5) | |
| x | x | x | x | x | x | x | x | x | |
| | (2) | | | | | (2) | | | |
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| | | | x | x | x | x | x | x | |
| | | | x | x | x | x | x | x | |
| | | | x | x | x | x | x | x | |

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|---|---|---|---|---|---|---|---|---|---|---|
| IPS-012 Plant Biology Journal Club, 1-5 cr (1 or 2/I-IV) | x | x | x | x | x | x | x | x | x | |
| IPS-013 Symposia and Seminars, 1-5 cr (1 or 2/I-IV) | x | x | x | x | x | x | x | x | x | |
| IPS-014 Learning by Teaching, 2-5 cr (1 or 2/I-IV) | x | x | x | x | x | x | x | x | x | |
| VIIKB-002 Tutoring , 5 cr (1/IV and 2/orientation week) | | | | 5 | | 0 | | | | |
| VIIKB-005 Demanding Participation in Administrative Bodies and Student Organisations, 2-5 cr (1 or 2 | x | x | x | x | x | x | x | x | x | |
| | | | | | | | | | | |
| **Other optional studies (examples)** | | | | | | | | | | |
| VIIKB-003 Orientation Week, 1 cr (1/orientation week) | 1 | | | | | | | | | |
| MAT12001 Basics of Statistics and R I, 5 cr (MOOC) (1 or 2/I-IV) | x | x | x | x | x | x | x | x | x | |
| LSI31008 Elements of Bioinformatics, 5 cr (1-2/I-II) | (2,5) | (2,5) | | | | (2,5) | (2,5) | | | |
| SUST-001 Sustainability course, 3 cr (web) (1 or 2/II or III-IV) | | (3) | (1,5) | (1,5) | | | (3) | (1,5) | (1,5) | |
| PED590 Towards better well-being and studying, 3 cr (web) (1/II) | | 3 | | | | | | | | |
| KK-ENG501 Academic Writing 1: Principles and Practice (MSc Students) (CEFR C1), 2 cr (1/I-II) | 1 | 1 | | | | | | | | |
| KK-ENG502 Academic Writing 2: Process and Feedback (MSc Students) (CEFR C1), 2 cr (2/I) | | | | | | 2 | | | | |
| Biodiversity network -online courses | | | | | | | | | | |
| Courses from the MSc Programme in Agricultural Sciences/Plant Production Sciences | | | | | | | | | | |
| Courses from the MSc Programme in Forest Sciences/Forest Pathology, Biotechnology and Ecology | | | | | | | | | | |
| Courses from the MSc Programme in Ecology and Evolutionary Biology | | | | | | | | | | |
| or any other optional study units from IPS or from other MSc programmes | | | | | | | | | | |
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| **Course list of optional modules (examples):* | | | | | | | | | | |
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| **AGRI-230 Plant Breeding 15 cr:** | | | | | | | | | | |
| AGRI-232 Crop Breeding and Genetic Resources, 5 cr (1 or 2/I, ODD years) | | | | | | 5 | | | | |
| FOR-278 Forest Tree Breeding and Genetic Resources, 5 cr (1 or 2/III, EVEN years) | | | | | | | | 5 | | |
| *Alternative, choose 5 cr* | | | | | | | | | | |
| IPS-125 Plant Genetics and Environmental Responses, 5 cr (1/IV) | | | | 5 | | | | | | |
| AGRI-285 Translational Plant Biology, 5 cr (1/III) | | | 5 | | | | | | | |
| | | | | | | | | | | |
| **AGRI-250 Plant Pathology 15 cr:** | | | | | | | | | | |
| AGRI-251 Fungal Plant Pathogens, 5 cr (1 or 2/I, ODD years) | | | | | | 5 | | | | |
| AGRI-252 Plant Pathogenic Bacteria, 5 cr (1 or 2/III, EVEN years) | | | | | | | | 5 | | |
| AGRI-253 Plant Virology, 5 cr (1 or 2/III, ODD years) | | | 5 | | | | | | | |
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*The degree structure 2023-2026 and a two-year model study schedule for the students, who start in the autumn 2024 (in an even year)*

## MSc degree in Integrative Plant Sciences (IPS), study track for Biology teachers, 120 cr

### IPS-101 Integrative Plant Sciences, study track for Biology teachers, Advanced studies, 60 cr

**Joint studies in the Master's Programme, 60 cr**

| A two-year model study schedule for 2024-2025 + 2025-2026* | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2024 - 2025 First year | | | | | | 2025 - 2026* Second year* (*a tentative model, changes possible) | | | | |
| I | II | III | IV | summer | I | II | III | IV | summer | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| IPS-001 Personal Study Plan (PSP), 0 cr (1/I) | 0 | | | | | | | | | |
| IPS-113 Advanced Plant Physiology, 5 cr (1 or 2/I) | (5) | | | | | (5) | | | | |
| IPS-002 Plants in a Changing World, 5 cr (1/I) | 5 | | | | | | | | | |
| IPS-003 Design & Planning of Biological Experiments, 5 cr (1/II) | | 5 | | | | | | | | |
| IPS-004b Master's Thesis Seminar part 2, 5 cr (2/I-IV) | | | | | | x | x | x | x | |
| IPS-006 Master's Thesis, 30 cr (2/I-IV) | | | | x | x | x | x | x | x | |
| VIIKB-001 Maturity Essay, 0 cr (2/IV) | | | | | | | | | 0 | |
| *Alternative, choose 10 cr* | | | | | | | | | | |
| Choose two courses with IPS codes from the modules IPS-300, IPS-400, IPS-500 and IPS-600 | | | | | | | | | | |
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| **Aineenopettajan pedagogiset opinnot, 60 op (in Finnish)** | x | x | x | x | x | x | x | x | x | |