

## Standard Master program in Biology (Ecology)

(Dated October 29<sup>th</sup>, 2015)

|   |                      |
|---|----------------------|
| The total minimum required number of credits: | <b>64 credits</b>    |
| - General courses (required):                 | <b>07 credits</b>    |
| - Fundamental and core courses:               | <b>39 credits</b>    |
| + Required:                                   | <b>18 credits</b>    |
| + Elective:                                   | <b>21/43 credits</b> |
| - Master thesis:                              | <b>18 credits</b>    |

### Available curriculum

| No                                     | Code    | Subjects                             | Credits      | Credit hours |          |            | Prerequisite        |
|--|---------|--------------------------------------|--------------|--------------|----------|------------|---------------------|
|  |         |                                      |              | Lecture      | Practice | Self-study |                     |
| <b>I General courses</b>               |         |                                      | <b>7</b>     |              |          |            |                     |
| 1.                                     | PHI5001 | <i>Philosophy</i>                    | 3            | 30           | 15       |            |                     |
| 2.                                     | ENG5001 | <i>General English</i>               | 4            | 30           | 30       |            |                     |
| <b>II Fundamental and core courses</b> |         |                                      | <b>39</b>    |              |          |            |                     |
| <b>II.1. Required</b>                  |         |                                      | <b>18</b>    |              |          |            |                     |
| 3.                                     | ENG6001 | <i>English for Academic Purposes</i> | 3            |              |          |            |                     |
| 4.                                     | BIO6001 | <i>Biosystematics</i>                | 3            | 30           |          | 15         |                     |
| 5.                                     | BIO6002 | <i>Molecular Cell Biology</i>        | 3            | 30           |          | 15         |                     |
| 6.                                     | BIO6062 | <i>Biodiversity and Conservation</i> | 3            | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 7.                                     | BIO6052 | <i>Terrestrial Ecology</i>           | 3            | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 8.                                     | BIO6011 | <i>Aquatic Ecology</i>               | 3            | 30           |          | 15         | BIO6001,<br>BIO6002 |
| <b>II.2. Elective</b>                  |         |                                      | <b>21/43</b> |              |          |            |                     |
| 9.                                     | BIO6009 | <i>Population Ecology</i>            | 3            | 30           |          | 15         | BIO6001,<br>BIO6002 |

| No           | Code                 | Subjects   | Credits   | Credit hours |          |            | Prerequisite        |
|--------------|----------------------|--|-----------|--------------|----------|------------|---------------------|
|              |                      |  |           | Lecture      | Practice | Self-study |                     |
| 10.          | BIO6007              | <i>Ecosystem Ecology</i>                                 | 3         | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 11.          | BIO6008              | <i>Forest Ecosystem</i>                                  | 3         | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 12.          | BIO6010              | <i>Agroecosystem</i>                                     | 3         | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 13.          | BIO6021              | <i>Restoration Ecology and Sustainable development</i>   | 2         | 20           |          | 10         | BIO6001,<br>BIO6002 |
| 14.          | BIO6085              | <i>Landscape ecology</i>                                 | 3         | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 15.          | BIO6024              | <i>Zoogeography</i>                                      | 2         | 20           |          | 10         | BIO6001,<br>BIO6002 |
| 16.          | BIO6054              | <i>Ecotoxicology</i>                                     | 3         | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 17.          | BIO6053              | <i>Mathematical Ecology</i>                              | 3         | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 18.          | BIO6055              | <i>Remote sensing and GIS applying in Ecology</i>        | 3         | 25           | 15       | 5          | BIO6001,<br>BIO6002 |
| 19.          | BIO6056              | <i>Eco-development</i>                                   | 3         | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 20.          | BIO6086              | <i>Ecology and climate change</i>                        | 3         | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 21.          | BIO6087              | <i>Ecosystem pollution</i>                               | 3         | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 22.          | BIO6075              | <i>Biological indicators of environmental conditions</i> | 3         | 30           |          | 15         | BIO6001,<br>BIO6002 |
| 23.          | BIO6076              | <i>Wetlands</i>  | 3         | 30           |          | 15         | BIO6001,<br>BIO6002 |
| <b>III</b>   | <b>Master Thesis</b> |  | <b>18</b> |              |          |            |                     |
| 24.          | BIO7007              | <i>Master Thesis</i>                                     | 18        |              |          |            |                     |
| <b>Total</b> |                      |  | <b>64</b> |              |          |            |                     |