**Incoming student mobility**

**UNIOS University Unit: Department of Biology**

**COURSES OFFERED IN FOREIGN LANGUAGE**

**FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS**

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| **Department or Chair within the UNIOS Unit** | **Department of Biology** |

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| **Study program** | Master of Science Graduate Program in Biology |

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| **Study level** | **Graduate (master)** |

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| **Course title** | **Molecular mechanisms of oxidative stress** |
| **Course code (if any)** | **BMZ75** |
| **Language of instruction** | **English** |
| **Brief course description** | **Oxygen and reactive oxygen species. Damage of biomolecules and cellular structures in conditions of oxidative stress. Oxidants and signal transduction in the cell. Non-enzymatic antioxidants: ascorbic acid, glutathione, vitamin E, carotenoids, phenols. Antioxidant enzymes: catalase, peroxidase, superoxide dismutase, glutathione reductase and monodehydroascorbate reductase. Halliwell-Asada cycle.** |
| **Form of teaching** | **Lectures, laboratory practice** |
| **Form of assessment** | **Written examination (test) and oral exam** |
| **Number of ECTS** | **2** |
| **Class hours per week** | **15 hours of lectures + 15 hours of laboratory practice in block** |
| **Minimum number of students** | **1** |
| **Period of realization** | **winter semester** |
| **Lecturer** | **Selma Mlinarić, Ph.D., Assistant Professor**  **Lidija Begović, Ph.D., Assistant Professor** |