

| <p style="text-align: center;"><b>WYDZIAŁ NAUK ŚCISŁYCH I PRZYRODNICZYCH - INSTYTUT BIOLOGII</b><br/> <b>FACULTY OF PHYSICAL, MATHEMATICAL AND NATURAL SCIENCES - INSTITUTE OF BIOLOGY</b></p> |                                       |                                 |  |  |                               |      |   |                            |
|--|---------------------------------------|---------------------------------|--|--|-------------------------------|------|---|----------------------------|
|  | Poziom<br>(I, II)<br>Cycle<br>(I, II) | Kierunek ANG<br>Course of study | Nazwa przedmiotu ANG<br>Name of a course                 | Język wykładowy<br>Language of a<br>course | Kod przedmiotu<br>Course code | ECTS | semestr z toku<br>studiów<br>semester in the<br>study cycle | syllabus                   |
| <b>A</b> <b>Przedmioty z programów studiów kierunków prowadzonych w języku obcym</b><br><b>Subjects from the study programmes of courses of study carried out in a foreign language</b>        |                                       |                                 |  |  |                               |      |   |                            |
| 1  | I                                     | Hydrobiology                    | Microbiology of the aquatic environment                  | English                                    | SPR201AIJ3450_11S             | 5    | 3 (autumn)  | USSPR-H-O-I-24/25Z         |
| 2  | I                                     | Hydrobiology                    | Statistics   | English                                    | SPR201AIJ3450_12S             | 2    | 3 (autumn)  | USSPR-H-O-I-24/25Z         |
| 3  | I                                     | Hydrobiology                    | Bioinformatics   | English                                    | SPR201AIJ3450_16S             | 2    | 3 (autumn)  | USSPR-H-O-I-24/25Z         |
| 4  | I                                     | Hydrobiology                    | Ichthyology  | English                                    | SPR201AIJ3450_1S              | 3    | 3 (autumn)  | USSPR-H-O-I-24/25Z         |
| 5  | I                                     | Hydrobiology                    | Ornithology  | English                                    | SPR201AIJ3450_39S             | 3    | 3 (autumn)  | USSPR-H-O-I-24/25Z         |
| 6  | I                                     | Hydrobiology                    | Physiology of water plants                               | English                                    | SPR201AIJ3450_15S             | 3    | 3 (autumn)  | USSPR-H-O-I-24/25Z         |
| 7  | I                                     | Hydrobiology                    | Potamology and limnology                                 | English                                    | SPR201AIJ3450_13S             | 6    | 3 (autumn)  | USSPR-H-O-I-24/25Z         |
| 8  | I                                     | Hydrobiology                    | Assessment of the ecological condition of surface waters | English                                    | SPR201AIJ3450_25S             | 5    | 4 (spring)  | USSPR-H-O-I-24/25Z         |
| 9  | I                                     | Hydrobiology                    | Herpetology and mammalogy                                | English                                    | SPR201AIJ3450_21S             | 3    | 4 (spring)  | USSPR-H-O-I-24/25Z         |
| 10   | I                                     | Hydrobiology                    | Oceanography   | English                                    | SPR201AIJ3446_20S             | 5    | 4 (spring)  | USSPR-H-O-I-24/25Z         |
| 11   | I                                     | Hydrobiology                    | Phycology  | English                                    | SPR201AIJ3446_22S             | 6    | 4 (spring)  | USSPR-H-O-I-24/25Z         |
| 12   | I                                     | Hydrobiology                    | Physiology of water animals                              | English                                    | SPR201AIJ3450_23S             | 3    | 4 (spring)  | USSPR-H-O-I-24/25Z         |
| 13   | I                                     | Hydrobiology                    | Water resource management                                | English                                    | SPR201AIJ3450_26S             | 5    | 4 (spring)  | USSPR-H-O-I-24/25Z         |
| <b>B</b> <b>Przedmioty do wyboru prowadzone w języku obcym z pozostałych programów studiów</b><br><b>Elective subjects taught in a foreign language from other study programmes</b>            |                                       |                                 |  |  |                               |      |   |                            |
| 1  | I                                     | Microbiology                    | Plant disease and damage diagnostics                     | English                                    | US93AIJ2611_21S               | 3    | 3 (autumn)  | USSPR-Mik-O-I-S-24/25Z     |
| 2  | I                                     | Biotechnology                   | Self-purification of water                               | English                                    | US34AIJ2457_56S               | 3    | 6 (spring)  | USSPR-Biotech-O-I-S-23/24Z |

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|--|---------------------------------------|---|--|--|-------------------------------|------|---|----------------------------|
| 3  | I                                     | Genetics and<br>Experimental Biology        | Behavioural Ecology  | English                                    | SPR85AIJ 3446_8S              | 1    | 6 (spring)  | USSPR-GiBE-O-I-S-23/24Z    |
| 4  | II                                    | Biology                                     | Ornithology  | English                                    | SPR23AIJ344 6_54S             | 2    | 4 (spring)  | USSPR-B-O-II-S-25/26Z      |
| 5  | II                                    | Biological Basis of Forensic<br>Science     | Forensic aerobiology   | English                                    | SPR92AIJ3446_15S              | 3    | 2 (spring)  | USSPR-BPK-O-II-S-25/26Z    |
| ...  |                                       |   |  |  |                               |      |   |                            |
| <b>C</b> <b>Przedmioty z programów studiów kierunków prowadzonych w języku polskim, które będą realizowane w języku obcym</b><br><b>Subjects from the study programmes of courses of study carried out in the Polish language, offered in a foreign language</b> |                                       |   |  |  |                               |      |   |                            |
| 1  | I                                     | Biology                                     | Zoologia bezkręgowców / <b>Zoology of invertebrates</b>  | English                                    | SPR23AIJ3446_5S               | 7    | 2 (spring)  | USSPR-B-O-I-S-25/26Z       |
| 2  | I                                     | Biotechnology                               | Roślinne kultury in vitro / <b>In Vitro Culture of Plant</b>   | English                                    | US34AIJ2611_29S               | 4    | 5 (autumn)  | USSPR-Biotech-O-I-S-23/24Z |
| 3  | I                                     | Biotechnology                               | Histologiczne podstawy hodowli komórek zwierzęcych / <b>Basic histology for animal cell culture</b>                          | English                                    | SPR34AIJ3450_37S              | 4    | 3 (autumn)  | USSPR-Biotech-O-I-S-24/25Z |
| 4  | I                                     | Environmental protection<br>management      | Biologiczne metody oceny wód/ <b>Biological methods of water assesment</b>   | English                                    | SPR208AIJ3450_31S             | 3    | 3 (autumn)  | USSPR-ZOŚP-O-I-S-25/26Z    |
| 5  | I                                     | Genetics and<br>Experimental Biology        | Podstawy taksonomii roślin / <b>Basics of plant taxonomy</b>   | English                                    | SPR85AIJ 3446_31S             | 3    | 3 (autumn)  | USSPR-GiBE-O-I-S-24/25Z    |
| 6  | I                                     | Genetics and<br>Experimental Biology        | Metody molekularne w badaniach taksonomicznych i populacyjnych/ <b>Molecular methods in taxonomic and population studies</b> | English                                    | US85AIJ2457_45S               | 4    | 5 (autumn)  | USSPR-GiBE-O-I-S-23/24Z    |
| 7  | I                                     | Genetics and<br>Experimental Biology        | Histologia zwierząt/ <b>Animal histology</b>   | English                                    | SPR34AIJ3450_28S              | 3    | 2 (spring)  | USSPR-GiBE-O-I-S-25/26Z    |
| 8  | I                                     | Microbiology                                | Immunologia/ <b>Immunology</b>   | English                                    | US93AIJ2614_29S               | 5    | 4 (spring)  | USSPR-Mik-O-I-S-24/25Z     |
| 9  | II                                    | Biology                                     | Paleoekologia/ <b>Paleoecology</b>   | English                                    | SPR23AIJ344 6_56S             | 2    | 4 (spring)  | USSPR-B-O-II-S-25/26Z      |
| 10   | II                                    | Environmental protection<br>and engineering | Antropogeniczne przekształcenia szaty roślinnej / <b>Anthropogenic transformations of plant cover</b>                        | English                                    | US119AIJ2456_15S              | 4    | 2 (spring)  | USSPR-OiŚP-O-II-S-25/26Z   |

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|--|---------------------------------------|-----------------------------------|--|--|-------------------------------|------|---|-------------------------|
| 11   | II                                    | Microbiology                      | Metody statystyczne w biologii/ <b>Statistical methods in biology</b>  | English                                    | US93AIIJ2451_14S              | 2    | 3 (autumn)  | USSPR-Mik-O-II-S-24/25Z |
| 12   | II                                    | Microbiology                      | Diagnostyka hematologiczna/ <b>Haematological diagnostics</b>  | English                                    | SPR93AIIJ3450_26S             | 3    | 4 (spring)  | USSPR-Mik-O-II-S-25/26Z |
| 13   | II                                    | Microbiology                      | Zastosowanie technik immunologicznych w diagnostyce mikrobiologicznej z wykorzystaniem metod molekularnych / <b>Immunological techniques based on molecular methods in microbial diagnostics</b> | English                                    | SPR93AIIJ3450_47S             | 2    | 3 (autumn)  | USSPR-Mik-O-II-S-24/25Z |
| 14   | II                                    | Microbiology                      | Bioinformatyka mikrobiomów różnych środowisk / <b>Bioinformatics of microbiomes from various environments</b>  | English                                    | SPR93AIIJ3450_12S             | 2    | 3 (autumn)  | USSPR-Mik-O-II-S-25/26Z |
| <b>D</b> <b>Przedmioty nieobjęte programem studiów kierunków prowadzonych w języku polskim, które będą realizowane w języku obcym</b><br><b>Subjects not included in the study programme of courses of study carried out in Polish, which will be realized in a foreign language</b> |                                       |                                   |  |  |                               |      |   |                         |
| 1  |                                       | Biology                           | Introduction to Conservation Biology   | English                                    | -                             | 4    |   | -                       |
| 2  |                                       | Biology                           | Conservation ecology   | English                                    | -                             | 4    |   | -                       |
| 3  |                                       | Biology                           | Introduction to Conservation Genetics  | English                                    | -                             | 4    |   | -                       |
| 4  |                                       | Genetics and experimental biology | Mitogenomics   | English                                    | -                             | 3    |   | -                       |
| 5  |                                       | Genetics and experimental biology | Genomics   | English                                    | -                             | 3    |   | -                       |
| 6  |                                       | Microbiology                      | Biowelfare, bioterrorism and biocrime  | English                                    | -                             | 3    |   | -                       |
| 7  |                                       | Genetics and Experimental Biology | Natural hazards  | English                                    | -                             | 3    |   | -                       |
| 8  |                                       | Genetics and experimental biology | Molecular population genetics  | English                                    | -                             | 3    |   | -                       |