|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **IT IS THE CURRICULUM OF THE FACULTY OF SCIENCE BIOLOGY PROGRAM TO BE IMPLEMENTED AS OF THE 2025-2026 ACADEMIC YEAR** | | | | | | | | | | | | | | | |
| **FIRST YEAR** | | | | | | | | | | | | | | | |
|  |  | **1nd Semester** |  |  |  |  |  |  | **2nd Semester** | | | | | | |
| **CURRENT D. CODE** | **RECOMMENDED D.CODE** | **Course name** | **C/E** | **T** | **P** | **C** | **ECTS** | **CURRENT D. CODE** | **RECOMMENDED D.CODE** | **Course name** | **C/E** | **T** | **P** | **C** | **ECTS** |
| BIO1101 | BIO1101 | General Biology I | C | 3 | 0 | 3 | 5 | BIO1002 | BIO1102 | General Biology II | C | 3 | 0 | 3 | 5 |
| BIO1051 | BIO1103 | General Biology I Laboratory | C | 0 | 2 | 1 | 3 | BIO1052 | BIO1104 | General Biology II Laboratory | C | 0 | 2 | 1 | 3 |
| BIO1005 | BIO1105 | Microtechnics | C | 2 | 0 | 2 | 4 | KIM1012 | KIM1112 | Basic Chemistry | C | 2 | 0 | 2 | 3 |
| BIO1055 | BIO1107 | Microtechnical Laboratory | C | 0 | 2 | 1 | 3 |  | KIM1114 | Basic Chemistry Laboratory | C | 0 | 2 | 1 | 2 |
| MAT1001 | MAT1123 | Basic Mathematics | C | 2 | 0 | 2 | 3 | BIO1014 | BIO1106 | Hydrobiology | C | 2 | 2 | 3 | 4 |
| FIZ1013 | FIZ1113 | Physical | C | 2 | 0 | 2 | 2 | BIO1016 | BIO1108 | Biophysics | C | 2 | 0 | 2 | 3 |
|  | FIZ1105 | Physics Laboratory | C | 0 | 2 | 1 | 2 | BIO1018 | BIO1110 | Fundamentals of Systematics | C | 2 | 0 | 2 | 3 |
| BIO1003 | BIO1109 | Biometrics | C | 3 | 0 | 3 | 4 | BIO2017 | BIO1112 | Project Training | C | 0 | 2 | 1 | 3 |
| TRD109 | TRD109 | Turkish Language I | C | 2 | 0 | 2 | 2 | TRD110 | TRD110 | Turkish Language II | C | 2 | 0 | 2 | 2 |
| YDI107 | YDI107 | English I | C | 2 | 0 | 2 | 2 | YDI108 | YDI108 | English II | C | 2 | 0 | 2 | 2 |
|  |  | **Total Period** |  | **16** | **6** | **19** | **30** |  |  | **Total Period** |  | **15** | **8** | **19** | **30** |
| **SECOND YEAR** | | | | | | | | | | | | | | | |
| **3rd Semester** | | | | | | | |  | **4th Semester** | | | | | | |
| **CURRENT D. CODE** | **RECOMMENDED D.CODE** | **Course name** | **C/E** | **T** | **P** | **C** | **ECTS** | **CURRENT D. CODE** | **RECOMMENDED D.CODE** | **Course name** | **C/E** | **T** | **P** | **C** | **ECTS** |
| BIO2001 | BIO2101 | Cell Biology | C | 3 | 0 | 3 | 4 | BIO2002 | BIO2102 | Animal Histology | C | 3 | 0 | 3 | 3 |
| BIO2051 | BIO2103 | Cell Biology Laboratory | C | 0 | 2 | 1 | 2 | BIO2052 | BIO2104 | Animal Histology Laboratory | C | 0 | 2 | 1 | 3 |
| KIM2033 | KIM2133 | Organic Chemistry | C | 2 | 0 | 2 | 2 | BIO4020 | BIO2106 | Molecular Biology II | C | 3 | 0 | 3 | 4 |
|  | KIM2135 | Organic Chemistry Laboratory | C | 0 | 2 | 1 | 2 | BIO2006 | BIO2108 | Plant Morphology and Anatomy | C | 4 | 0 | 4 | 4 |
| BIO4007 | BIO2105 | Molecular Biology I | C | 3 | 0 | 3 | 3 | BIO2056 | BIO2110 | Plant Morphology and Anatomy Laboratory | C | 0 | 2 | 1 | 1 |
| BIO4057 | BIO2107 | Molecular Biology Laboratory | C | 0 | 2 | 1 | 2 | BIO2008 | BIO2112 | Ecology II | C | 2 | 0 | 2 | 3 |
| BIO2005 | BIO2109 | Microbiology | C | 3 | 0 | 3 | 4 | BIO4014 | BIO2114 | Biotechnology | C | 2 | 0 | 2 | 2 |
| BIO2055 | BIO2111 | Microbiology Laboratory | C | 0 | 2 | 1 | 2 | BIO4022 | BIO2116 | Bacteriology | E | 2 | 0 | 2 | 3 |
| BIO2007 | BIO2113 | Ecology I | C | 2 | 0 | 2 | 2 | AIT210 | AIT210 | Ataturk's Principles and Revolution History II | E | 2 | 0 | 2 | 2 |
| YDI207 | YDI207 | English III | C | 2 | 0 | 2 | 2 | YDI208 | YDI208 | English IV | E | 2 | 0 | 2 | 2 |
| AIT209 | AIT209 | Ataturk's Principles and Revolution History I | C | 2 | 0 | 2 | 2 |  | SSD2102 | *Social Elective Course-II* | E | 2 | 0 | 2 | 3 |
|  | SSD2101 | *Social Elective Course-I* | E | 2 | 0 | 2 | 3 |  |  |  |  |  |  |  |  |
|  |  | **Total Period** |  | **19** | **8** | **23** | **30** |  |  | **Total Period** |  | **22** | **4** | **24** | **30** |
| **THIRD YEAR** | | | | | | | | | | | | | | | |
| **5th Semester** | | | | | | | |  | **6th Semester** | | | | | | |
| **CURRENT D. CODE** | **RECOMMENDED D.CODE** | **Course name** | **C/E** | **T** | **P** | **C** | **ECTS** | **CURRENT D. CODE** | **RECOMMENDED D.CODE** | **Course name** | **C/E** | **T** | **P** | **C** | **ECTS** |
| BIO3001 | BIO3101 | Genetics I | C | 3 | 3 | 4 | 4 | BIO3002 | BIO3102 | Genetics II | C | 3 | 3 | 4 | 4 |
| BIO3003 | BIO3103 | Cryptogamic Plants | C | 3 | 0 | 3 | 3 | BIO3004 | BIO3104 | Biochemistry II | C | 3 | 0 | 3 | 3 |
| BIO3053 | BIO3105 | Cryptogamic Plants Laboratory | C | 0 | 2 | 1 | 1 | BIO3054 | BIO3106 | Biochemistry II Laboratory | C | 0 | 2 | 1 | 1 |
| BIO3005 | BIO3107 | Vertebrates Animals I | C | 2 | 0 | 2 | 2 | BIO3006 | BIO3108 | Vertebrates Animals II | C | 2 | 0 | 2 | 2 |
| BIO3055 | BIO3109 | Vertebrates Animals I Lab. | C | 0 | 2 | 1 | 1 | BIO3056 | BIO3110 | Vertebrates Animals II Lab. | C | 0 | 2 | 1 | 1 |
| BIO3007 | BIO3111 | Biochemistry I | C | 3 | 0 | 3 | 3 | BIO3008 | BIO3112 | Seeded Plants | C | 3 | 0 | 3 | 3 |
| BIO3057 | BIO3113 | Biochemistry I Laboratory | C | 0 | 2 | 1 | 1 | BIO3058 | BIO3114 | Seeded Plants Laboratory | C | 0 | 2 | 1 | 1 |
|  | SSD3101 | *Social Elective Course-III* | E | 2 | 0 | 2 | 3 |  | SSD3102 | *Social Elective Course-IV* | E | 2 | 0 | 2 | 3 |
|  |  | *Field Elective Course* | E | 2 | 0 | 2 | 4 |  |  | *Field Elective Course* | E | 1 | 2 | 2 | 4 |
|  |  | *Field Elective Course* | E | 2 | 0 | 2 | 4 |  |  | *Field Elective Course* | E | 2 | 0 | 2 | 4 |
|  |  | *Field Elective Course* | E | 2 | 0 | 2 | 4 |  |  | *Field Elective Course* | E | 2 | 0 | 2 | 4 |
|  |  | **Field Elective Course List (3 Elective Courses to be Selected)** |  |  |  |  |  |  |  | **Field Elective Course List (3 Elective Courses to be Selected)** |  |  |  |  |  |
| BIO3011 | BIO3115 | Professional Foreign Language | E | 2 | 0 | 2 | 4 | BIO3014 | BIO3116 | Terrain Application | E | 1 | 2 | 2 | 4 |
| BIO3015 | BIO3117 | Biogeography | E | 2 | 0 | 2 | 4 | BIO3020 | BIO3118 | Instrumental Analysis in Biology | E | 2 | 0 | 2 | 4 |
| BIO3017 | BIO3119 | Environmental Biology | E | 2 | 0 | 2 | 4 | BIO3024 | BIO3120 | Nature Conservation | E | 2 | 0 | 2 | 4 |
| BIO3019 | BIO3121 | Parasitology | E | 2 | 0 | 2 | 4 | BIO3026 | BIO3122 | Algal Ecology | E | 2 | 0 | 2 | 4 |
|  | BIO3123 | Environmental Impact Assessment | E | 2 | 0 | 2 | 4 | BIO3034 | BIO3124 | Plant Genome Analysis | E | 2 | 0 | 2 | 4 |
| BIO3035 | BIO3125 | Industrial Microbiology | E | 2 | 0 | 2 | 4 | BIO4021 | BIO3126 | Plant Chemicals | E | 2 | 0 | 2 | 4 |
|  | BIO3127 | Nanobiotechnology | E | 2 | 0 | 2 | 4 | BIO3038 | BIO3128 | Metabolism Biochemistry | E | 2 | 0 | 2 | 4 |
| BIO3039 | BIO3129 | Plant Growing Methods | E | 2 | 0 | 2 | 4 | BIO3040 | BIO3130 | Biosafety and Bioethics | E | 2 | 0 | 2 | 4 |
|  |  |  |  |  |  |  |  | BIO3012 | BIO3132 | Professional Foreign Language II | E | 2 | 0 | 2 | 4 |
|  |  | **Total Period** |  | **19** | **9** | **23** | **30** |  |  | **Total Period** |  | **18** | **11** | **23** | **30** |
| **FOURTH YEAR** | | | | | | | | | | | | | | | |
| **7th Semester** | | | | | | | |  | **8th Semester** | | | | | | |
| **CURRENT D. CODE** | **RECOMMENDED D.CODE** | **Course name** | **C/E** | **T** | **P** | **C** | **ECTS** | **CURRENT D. CODE** | **RECOMMENDED D.CODE** | **Course name** | **C/E** | **T** | **P** | **C** | **ECTS** |
| BIO4001 | BIO4101 | Animal Physiology | C | 4 | 0 | 4 | 4 | BIO4002 | BIO4102 | Plant Physiology | C | 4 | 0 | 4 | 4 |
| BIO4051 | BIO4103 | Animal Physiology Laboratory | C | 0 | 2 | 1 | 2 | BIO4052 | BIO4104 | Plant Physiology Lab | C | 0 | 2 | 1 | 2 |
| BIO4005 | BIO4105 | Evolution | C | 2 | 0 | 2 | 3 | BIO4011 | BIO4106 | Human Anatomy and Physiology | C | 3 | 0 | 3 | 3 |
| BIO2003 | BIO4107 | Invertebrates Animals I | C | 2 | 0 | 2 | 3 | BIO2004 | BIO4108 | Invertebrates Animals II | C | 2 | 0 | 2 | 2 |
| BIO2053 | BIO4109 | Invertebrates I Lab. | C | 0 | 2 | 1 | 2 | BIO2054 | BIO4110 | Invertebrates Animals II Lab. | C | 0 | 2 | 1 | 2 |
| BIO4003 | BIO4111 | Plant Embryology | C | 3 | 0 | 3 | 3 |  | BIO4112 | Bioinformatics | C | 2 | 0 | 2 | 2 |
|  | BIO4113 | Professional Practice | C | 0 | 2 | 1 | 1 | BIO4003 | BIO4114 | Human Embryology | C | 3 | 0 | 3 | 3 |
|  |  | *Field Elective Course* | E | 2 | 0 | 2 | 4 |  |  | *Field Elective Course* | E | 2 | 0 | 2 | 4 |
|  |  | *Field Elective Course* | E | 2 | 0 | 2 | 4 |  |  | *Field Elective Course* | E | 2 | 0 | 2 | 4 |
|  |  | *Field Elective Course* | E | 2 | 0 | 2 | 4 |  |  | *Field Elective Course* | E | 2 | 0 | 2 | 4 |
|  |  | **Field Elective Course List (3 Elective Courses to be Selected)** |  |  |  |  |  |  |  | **Field Elective Course List (3 Elective Courses to be Selected)** |  |  |  |  |  |
| BIO4015 | BIO4115 | Mycology | E | 2 | 0 | 2 | 4 | BIO4016 | BIO4116 | Immunology | E | 2 | 0 | 2 | 4 |
| BIO4017 | BIO4117 | Plant Nutrition Physiology | E | 2 | 0 | 2 | 4 | BIO4008 | BIO4118 | Tissue Culture Techniques | E | 2 | 0 | 2 | 4 |
| BIO4019 | BIO4119 | Medicinal and Economic Plants | E | 2 | 0 | 2 | 4 | BIO4004 | BIO4120 | General Phytopathology | E | 2 | 0 | 2 | 4 |
| BIO3036 | BIO4121 | Pollution and Biological Monitoring | E | 2 | 0 | 2 | 4 | BIO4024 | BIO4122 | Palynology | E | 2 | 0 | 2 | 4 |
| BIO4023 | BIO4123 | Virology | E | 2 | 0 | 2 | 4 | BIO4006 | BIO4124 | Vegetation Science | E | 2 | 0 | 2 | 4 |
| BIO4031 | BIO4125 | Toxicology | E | 2 | 0 | 2 | 4 | BIO4032 | BIO4126 | Soil Biology | E | 2 | 0 | 2 | 4 |
| BIO4033 | BIO4127 | Genetic Engineering | E | 2 | 0 | 2 | 4 | BIO4034 | BIO4128 | Animal Geography | E | 2 | 0 | 2 | 4 |
| BIO4035 | BIO4035 | Chemical Enzymology | E | 2 | 0 | 2 | 4 | BIO4036 | BIO4130 | Environmental Health | E | 2 | 0 | 2 | 4 |
|  |  | **Total Period** |  | **17** | **6** | **20** | **30** |  |  | **Total Period** |  | **20** | **4** | **22** | **30** |
|  |  | **Total Theoretical Lesson Hours** |  | **146** | |  |  |  |  |  |  |  |  |  |  |
|  |  | **Total Practice Class Hours** |  | **56** | |  |  |  |  |  |  |  |  |  |  |
|  |  | **Total Credit** |  | **173** | |  |  |  |  |  |  |  |  |  |  |
|  |  | **Total Lesson Hours** |  | **202** | |  |  |  |  |  |  |  |  |  |  |
|  |  | **Total ECTS Credits** |  | **240** | |  |  |  |  |  |  |  |  |  |  |
|  |  | **Application Rate** |  | **27,72** | |  |  |  |  |  |  |  |  |  |  |