

DOUBLE MAJOR PROGRAMS BETWEEN MBG AND PHYS DEPARTMENTS

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| MBG PROGRAM | | | MBG-PHYS (MBG Students) | | | PHYS-MBG (PHYS Students) | | | PHYS PROGRAM (Medikal Fizik Modülü) | | |
|------------------|----------|----------|-------------------------|----------|----------|--------------------------|----------|--------------|---|-------|--------------|
| First Semester | Cr. | ECTS | First Semester | Cr. | ECTS | First Semester | Cr. | ECTS | First Semester | Cr. | ECTS |
| BIO 101 | 3 | 5 | BIO 101 | 3 | 5 | PHYS 101 | 4 | 8 | PHYS 101 | 4 | 8 |
| BIO 103 | 1 | 2 | BIO 103 | 1 | 2 | CHEM 105 | 4 | 6 | CHEM 105 | 4 | 6 |
| CHEM 103 | 3 | 7 | CHEM 103 | 3 | 7 | MATH 101 | 4 | 6 | MATH 101 | 4 | 6 |
| CHEM 109 | 1 | 2 | CHEM 109 | 1 | 2 | Lit. 211 | 3 | 8 | Lit 211 | 3 | 8 |
| MATH 101 | 4 | 6 | MATH 101 | 4 | 6 | | | 15 28 | | | 15 28 |
| PHYS 101* | 4 | 8 | PHYS 101* | 4 | 8 | | | | | | |
| | 16 | 30 | | 16 | 30 | | | | | | |
| Second Semester | | | Second Semester | | | Second Semester | | | Second Semester | | |
| BIO 104 | 3 | 5 | BIO 104 | 3 | 5 | PHYS 102 | 4 | 8 | PHYS 102 | 4 | 8 |
| BIO 122 | 1 | 1 | BIO 122 | 1 | 1 | MATH 102 | 4 | 6 | MATH 102 | 4 | 6 |
| CHEM 104 | 3 | 6 | CHEM 104 | 3 | 6 | Science Elect. | 4 | 8 | Sci. Elec.** | (3+1) | 6 |
| MATH 102 | 4 | 6 | MATH 102 | 4 | 6 | Lit.212 | 3 | 8 | Lit 212 | 3 | 8 |
| PHYS 130 | 4 | 7 | PHYS 130 | 4 | 7 | | | 15 30 | | | 15 28 |
| HSS | 3 | 5 | HSS | 3 | 5 | | | | | | |
| | 18 | 30 | | 18 | 30 | | | | | | |
| Third Semester | | | Third Semester | | | Third Semester | | | Third Semester | | |
| BIO 241 | 4 | 6 | BIO 241 | 4 | 6 | PHYS 201 | 4 | 6 | PHYS 201 | 4 | 6 |
| CHEM 203 | 1 | 3 | CHEM 221 | 4 | 5 | PHYS 221 | 3 | 5 | PHYS 221 | 3 | 5 |
| CHEM 221 | 4 | 5 | CHEM 203 | 1 | 3 | MATH 201 | 4 | 5 | MATH 201 | 4 | 5 |
| MATH 201 | 4 | 5 | MATH 201 | 4 | 5 | EC 101 | 3 | 5 | EC 101 | 3 | 5 |
| PHYS 201 | 4 | 6 | PHYS 201 | 4 | 6 | BIO 241 | 4 | 6 | HUM 101 | 4 | 6 |
| TK 221 | 2 | 3 | HSS | 3 | 6 | HUM 101 | 4 | 6 | TK 221 | 2 | 3 |
| | 19 | 28 | TK 221 | 2 | 3 | TK 221 | 2 | 3 | | 20 | 30 |
| | | | | 22 | 34 | | | 24 36 | | | |
| Forth Semester | | | Forth Semester | | | Forth Semester | | | Forth Semester | | |
| BIO 252 | 4 | 6 | BIO 252 | 4 | 6 | PHYS 202 | 4 | 6 | PHYS 202 | 4 | 6 |
| MATH 344 | 3 | 5 | MATH 202 | 4 | 7 | MATH 202 | 4 | 7 | MATH 202 | 4 | 7 |
| BIO 351 | 4 | 6 | MATH 344 | 3 | 5 | EE 210 | 3 | 6 | EE 210 | 3 | 6 |
| Computer Elect. | 3 | 6 | PHYS 202 | 4 | 6 | EC 102 | 3 | 4 | EC 102 | 3 | 4 |
| HSS | 3 | 6 | TK 222 | 2 | 3 | HUM 102 | 4 | 6 | HUM 102 | 4 | 6 |
| TK 222 | 2 | 3 | Computer Elect. | 3 | 4 | TK 222 | 2 | 3 | TK 222 | 2 | 3 |
| | 19 | 32 | Unrest. Elective | 3 | 6 | BIO 252 | 4 | 6 | | 20 | 32 |
| | | | | 23 | 37 | | | 24 38 | | | |
| Fifth Semester | | | Fifth Semester | | | Fifth Semester | | | PHYS 202 geçince modül seçiliyor | | |
| | | | | | | | | | Fifth Semester | | |
| BIO 301 | 4 | 8 | BIO 301 | 4 | 8 | PHYS 301 | 3 | 6 | PHYS 301 | 3 | 6 |
| BIO 305 | 2 | 3 | BIO 305 | 2 | 3 | PHYS 331 | 3 | 5 | PHYS 331 | 3 | 7 |
| BIO 353 | 4 | 8 | BIO 353 | 4 | 8 | BIO 301(distrb) | 4 | 8 | Phys.(opt) | 3 | 6 |
| HSS | 3 | 6 | PHYS 221 | 3 | 5 | BIO 305 | 2 | 3 | Phys.(distrb) | 3 | 6 |
| HTR 311 | 2 | 3 | PHYS 301 | 3 | 6 | BIO 353 (option) | 4 | 8 | Unrest. Elective | 3 | 6 |
| | 15 | 28 | HSS | 3 | 6 | HTR 311 | 2 | 3 | HTR 311 | 2 | 3 |
| | | | HTR 311 | 2 | 3 | | | 18 33 | | | 17 34 |
| | | | | 21 | 39 | | | | | | |
| Sixth Semester | | | Sixth Semester | | | Sixth Semester | | | Sixth Semester | | |
| BIO 302 | 3 | 5 | BIO 302 | 3 | 5 | PHYS 302 | 3 | 3 | PHYS 302 | 3 | 3 |
| BIO 306 | 2 | 3 | BIO 306 | 2 | 3 | PHYS 380 | 3 | 5 | PHYS 380 | 3 | 5 |
| BIO 332 | 3 | 5 | BIO 332 | 3 | 5 | BIO 306 | 2 | 3 | Phys.(opt) | 3 | 6 |
| BIO 342 | 4 | 6 | BIO 342 | 4 | 6 | BIO 332 (option) | 3 | 5 | Phys.(distrb) | 3 | 6 |
| Comp/Dept. Elec. | 3 | 4 | PHYS 302 | 3 | 3 | Distrb. Elective | 3 | 6 | Unrest. Elective | 3 | 6 |
| HSS | 3 | 6 | PHYS 380 | 3 | 5 | Unrest. Elective | 3 | 6 | HTR 312 | 2 | 3 |
| HTR 312 | 2 | 3 | HTR 312 | 2 | 3 | HTR 312 | 2 | 3 | | | |
| | 20 | 32 | | 20 | 30 | | | 19 31 | | | 17 29 |
| | | | | | | | | | | | |
| Seventh Semester | | | Seventh Semester | | | Seventh Semester | | | Seventh Semester | | |
| BIO 401 | 4 | 8 | BIO 401 | 4 | 8 | PHYS 325 | 3 | 5 | PHYS 325 | 3 | 5 |
| BIO 407 | 1 | 2 | BIO 407 | 1 | 2 | PHYS 407 | 3 | 7 | PHYS 407 | 3 | 7 |
| BIO 409 | 3 | 5 | BIO 409 | 3 | 5 | Phys. Option | 3 | 6 | Phys.(opt) | 3 | 6 |
| BIO 443 | 3 | 5 | PHYS 311/407 | 3 | 7 | BIO 401 (distrb) | 4 | 8 | Phys.(distrb) | 3 | 6 |
| Comp/Dept. Elec. | 3 | 4 | PHYS Elective | 3 | 6 | BIO 409 | 3 | 5 | Unrest. Elective | 3 | 6 |
| Unrest. Elective | 3 | 6 | COMP/ArE | 3 | 6 | Unrest. Elective | 3 | 6 | | | |
| | 17 | 30 | HSS | 3 | 6 | | | 19 37 | | | 15 30 |
| | | | | 20 | 40 | | | | | | |
| Eighth Semester | | | Eighth Semester | | | Eighth Semester | | | Eighth Semester | | |
| BIO 402 | 4 | 6 | BIO 402 | 4 | 6 | PHYS 408 | 3 | 6 | PHYS 408 | 3 | 6 |
| Dept. Elective | 3 | 6 | ArE | 3 | 6 | PHYS 442 | 4 | 7 | PHYS 442 | 4 | 7 |
| Dept. Elective | 3 | 6 | COMP/ArE | 3 | 6 | PHYS Dept. Elect. | 3 | 6 | Phys.Elect. *** | 3 | 6 |
| Unrest. Elective | 3 | 6 | PHYS 312/325/337/408 | 3 | 5/5/6/6 | BIO 402(distrb) | 4 | 6 | Phys.(distrb) | 3 | 5 |
| HSS | 3 | 6 | PHYS Dept. Elec. | 3 | 6 | Unrest. Elective | 3 | 6 | Unrest. Elective | 3 | 6 |
| | 16 | 30 | HSS | 3 | 6 | | | 17 31 | | | 16 30 |
| | | | | 19 | 35/36 | | | | | | |
| | 140 | 240 | | 159 | 277/278 | | 151 | 264 | | 135 | 241 |
| OVERLOAD | | | 19 | | | | | | | | |

*Physics courses are one of the 3 series:

Phys 101, Phys 130, Phys 201;

Phys 101, Phys 102, Phys 201, Phys 202;

Phys 121, Phys 201, Phys 202.

** 4 kredilik Sci.Elective almayan, 1kredilik derslerden biri ile tamamliyaacak.

Phys.Option= Opsiyon dersi

Phys.(distrb)= Fizik –distribusyon (Fizik dışı modül)

***: Phys.Elective dersi 300 veya 400'lu seviyede herhangi bir Phys. Kodlu fizik bölümü dersidir.