

**İZMİR INSTITUTE OF TECHNOLOGY**  
**MOLECULAR BIOLOGY AND GENETICS DEPARTMENT**  
**UNDERGRADUATE AREA ELECTIVE COURSES**  
**(2025 Undergraduate Curriculum)**

<b>AREA ELECTIVE COURSES</b>	<b>ECTS</b>
MBG 321 Immunology (3+0)3	5
MBG 322 Cytogenetics (3+0)3	5
MBG 323 Human Genetics (3+0)3	5
MBG 324 Plant Molecular Biology and Genetics (3+0)3	5
MBG 325 Molecular Evolution and Population Genetics (3+0)3	5
MBG 326 Plant Biology (3+0)3	5
MBG 327 Human Physiology (3+0)3	5
MBG 328 Digital Cell (3+0)3	5
MBG 329 Microbiology (3+0)3	5
MBG 401 Recombinant DNA Technologies (3+0)3	5
MBG 403 Developmental Biology (3+0)3	5
MBG 404 Computational Biology (2+2)3	5
MBG 405 Current Techniques in Molecular Biology (3+0)3	5
MBG 406 Genomics and Proteomics (3+0)3	5
MBG 407 Signal Transduction (3+0)3	5
MBG 409 Cognitive Neuroscience (3+0)3	5
MBG 421 Molecular Medicine (3+0)3	5
MBG 422 Neurobiology (3+0)3	5
MBG 423 Biophysics (3+0)3	5
MBG 424 Biotechnology (3+0)3	5
MBG 425 Virology (3+0)3	5
MBG 426 Bioentrepreneurship (3+0)3	5
MBG 427 Industrial Perspectives on Molecular Biology and Genetics (3+0)3	5
MBG 498 Supplementary Curricular Courses (0+6)3	5
MBG 499 Cooperative Education (0+6)3	5
MBG 351 Research Project I (0+6)3	5
MBG 352 Research Project II (0+6)3	5
MBG 451 Research Project III (0+6)3	5
MBG 452 Research Project IV (0+6)3	5

Students can register for all Research Projects but only 9 credits count towards graduation. Only first three research projects are counted.

Research Projects (up to 9 credits) can be taken from other departments as well.

Students can register for up to 12 credits of technical electives from other departments towards graduation (including Research Projects).