



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Medical Biology Genetics							
Course Code		EBL358		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit	4	Workload	97 ( <i>Hours</i> )	Theory	2	Practice	0	Laboratory	0
Objectives of the Course									
Course Content									
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)		Prof. Abdullah YALÇIN, Prof. Mehtap KILIÇ EREN							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Alberts B., Johnson A., Lewis J., Raff M., Roberts K., Walter P., "Molecular Biology of the Cell" Garland Science, Fourth Edition (2002)
2	Başaran N. (1994): Tıbbi Genetik. 5. baskı, Bilim Teknik Yayınevi, İSTANBUL

Week	Weekly Detailed Course Contents	
1	Theoretical	Common characteristics of living things I
2	Theoretical	Cell General properties of cell, Microscopic structure of cell, Cell membrane
3	Theoretical	Cell (Continued) Cytoplasm and Organelles
4	Theoretical	Nucleus and Genetic Materials: Nucleus, Nucleus membrane and Nucleolus, Introduction to genetic material
5	Theoretical	Nucleus and Genetic Materials: Nucleus, Nucleus membrane and Nucleolus, Introduction to genetic material
6	Theoretical	Protein Sentezi: DNA replikasyonu, Transkripsiyon 49/5000 Protein Synthesis: DNA replication, Transcription
7	Theoretical	Protein Synthesis: DNA replication, Transcription
8	Intermediate Exam	Midterm
9	Theoretical	Chromosomes and chromosomal irregularities: Definition of chromosomes, classification of chromosomes
10	Theoretical	Structural and Numerical Chromosomal disorders, Errors during cell division
11	Theoretical	Inheritance Patterns: Autosomal Dominant Inheritance, Autosomal Recessive Inheritance
12	Theoretical	Inheritance Patterns (Continued): Xe-linked recessive inheritance, Xe-linked Dominant Inheritance, Multifactorial Inheritance
13	Theoretical	Mutations: Definition of mutations, Classification and definition of mutations
14	Theoretical	Prenatal Diagnosis and Genetic Counseling: Indications of Prenatal Diagnosis, Prenatal Diagnostic Methods, Genetic Counseling
15	Final Exam	final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Assignment	2	5	2	14
Midterm Examination	1	8	2	10



Final Examination	1	15	2	17
Total Workload (Hours)				97
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	
2	
3	
4	
5	

### Programme Outcomes (Child Development)

1	Comparatively evaluate and interpret the reliability and validity of the knowledge he / she has by using the basic and updated theoretical and practical educational and training tools and resources in the field of child development.
2	In line with the theoretical and practical knowledge he has acquired in the field of child development, he has the skills to evaluate children who show typical and atypical development with different methods and tools, develop support programs, provide family counseling and inform the society.
3	Uses his/her knowledge about self-care, physical-motor, cognitive-language, social-emotional development of 0-18 year old children for the developmental and educational diagnosis of children, in the units related to his/her profession for the benefit of children, families and society.
4	Analyzes the problems of their children and their families in terms of health, development, education and social service in the country and produces appropriate solutions and original ideas by using evidence-based knowledge on these problems.
5	Using the basic knowledge in the field of child development, he produces individual and group studies
6	He plans and implements research, professional projects and activities for the social environment in which it lives with the awareness of social responsibility, and monitors and evaluates the process.
7	Acts in accordance with the ethics of science, observes the psychological state of the children and their families in experimental researches on children.
8	Behaves in accordance with laws, regulations and legislation and respectful of democracy, human rights, social, scientific and professional ethical values, presenting an example for the society with his/her attitude, behavior and appearance.
9	Has adequate awareness about quality management and processes, individual and environmental protection and occupational safety issues including infants, children and families, participates and behaves accordingly in these processes.
10	He can integrate her professional knowledge with knowledge from different disciplines, he takes responsibility in multidisciplinary, interdisciplinary and transdisciplinary studies by participating in teamwork and fulfills his duties effectively.
11	Developing the habit of keeping research and learning awareness and knowledge up-to-date throughout life, he knows all the concepts related to development and education for children and young people aged 0-18 and follows the studies on this subject with a critical approach.
12	Using information and communication technologies together with the computer software required by the field.
13	To follow the changes and developments in the field using at least one foreign language.

### Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	3	3	3	3	3
P3	3	3	3	3	3
P4	3	3	3	3	3
P9	3	3	3	3	3
P11	3	3	3	3	3

