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| Course Code-Name | GBE 357 Human Genetics |
| Instructor | Assist. Prof. Dr. Fatih Kocabaş Genetics and Bioengineering Department, Room B504 0-216-578 0618 fatih.kocabas@yeditepe.edu.tr |
| Course Schedule | Tuesday 9:00-11:00, Wednesday 13:00 – 13:50 @ A207 |
| Prerequisite | None |
| Office Hours | Tuesday 11:00 – 12:50 <i>by appointment only</i> |
| Course Description | Concepts and Applications in Human Genetics |
| Course Objectives | Organization, structure, function, and mapping of the human genome; the biochemical and molecular basis, screening, prevention, and treatment of various human diseases, including cancer; genetic variation in humans; gene frequencies in human populations; human behavioral genetics, human developmental genetics, medical genetics and other aspects of human heredity. |
| Required Textbook & Supplementary Materials | Human Genetics: Concepts and Applications, 11/e with Connect Ricki Lewis, The University at Albany, ISBN: 9780077658908 Human Molecular Genetics, Tom Strachan & Andrew Read. 4 th Edition. Garland Science |
| Grading | Homework/Quizzes: 30% Mid-Semester Exam: 30% Final Exam: 40% TOTAL: 100% If you achieve less than 50% overall in the class, you will automatically get an “F”. |
| Make-up Exams | There is no planned make-up for any missing examination. You must demonstrate a valid excuse to re-take a missed exam. In addition, the school policies will be taken into account in cases when you miss a scheduled examination. |
| Homework / Quizzes | There will be homework assigned for this course, using the CONNECT website associated with the “Human Genetics: Concepts and Applications” 11 th Edition textbook. Therefore it is essential that you purchase a new textbook that gives access to the CONNECT web content. It is also highly recommended that you read the relevant chapters in the textbook as the course progresses and study for at least one hour for every one hour of lecture. A short quiz will be given every week based on the previous week’s reading assignments. |
| Attendance | If you fail to attend less than 80% of the lectures from the beginning of the semester , you will get “FA” in the course and have no right to take BÜTÜNLEME exam. In addition, tardiness to class may incur a penalty of loss of marks. |
| Academic Integrity | Adherence to the University Academic Integrity policy is expected. No breach of this policy will be tolerated. Any offenders, explicit or complicit, will be dealt with in accordance with the established University procedures. |



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| Exam Schedule | Mid-Semester Exam | Tuesday, Oct. 24 th | 9:00-11:00 AM |
| | Final Exam | Dec 23, 2017- Jan 6, 2018 | Exact time and date will be announced later. |

| Week | Lecture | Chapters | Topics |
|--------------|----------------|-----------------|--|
| Sep 11-16 | 1, 2 | 1, 2 | Overview of Genetics & Cells |
| Sep 18-23 | 3, 4 | 3, 4 | Development & Mendelian Inheritance |
| Sep 25-29 | 5, 6 | 5, 6 | Extensions and Exceptions to Mendel's Laws & Matters of Sex |
| Oct 2-6 | 7, 8 | 7, 8 | Multifactorial Traits & The Genetics of Behavior |
| Oct 9-13 | 9,10 | 9, 10 | DNA Structure and Replication & Gene Action: From DNA to Protein |
| Oct 16-20 | 10, 11 | 10, 11 | Control of Gene Expression |
| Oct 23-27 | 1-11 | 1-11 | Midterm |
| Oct 30-Nov 3 | 12, 13 | 12, 13 | Gene Mutation & Chromosomes |
| Nov 6-10 | 14, 15 | 14, 15 | Population Genetics |
| Nov 13-17 | - | - | Holiday (Tanıtım Gezileri) |
| Nov 20-24 | 16, 17 | 15, 17 | Changing Allele Frequencies; Genetics of Immunity |
| Nov 27-Dec 1 | 17, 18 | 17, 18 | Immunity and Cancer |
| Dec 4-8 | 18, 19 | 19 | Genetic Technologies: Amplifying, Modifying, and Monitoring DNA |
| Dec 11-15 | 19, 20 | 20, 21 | Genetic Testing, Genetic Counseling, and Gene Therapy |
| Dec 18-22 | 20-21 | 21-22 | Reproductive Technologies and Genomics |

Disclaimer: This syllabus provides a general plan and subject to change. The instructor reserves the right to make modifications in content and schedules as necessary to promote the best education possible within the prevailing conditions affecting this course. It is the student's responsibility to note the changes that may occur during the semester.

CONNECT STUDENT REGISTRATION INFORMATION

Course GBE 357 Human Genetics Fall 2017 with LearnSmart

Instructor Assist. Prof. Dr. Fatih Kocabas

Section HGFall2017

Online registration instructions

Go to the following web address and click the "**register now**" button.

<http://connect.mheducation.com/class/f-kocabas-hgfall2017>