

**University of Ankara
Library and Documentation Department
Open Course Materials**

Course Syllabus Form

Course Code and Title	AQS108 GENETICS
Instructor	Prof. Dr. İsmail AKYOL Prof. Dr. Mehmet Ali YILDIZ Prof. Dr. M. Muhip ÖZKAN
Course Level	Bachelor's Degree
Course Credit	Compulsory
Course Type	Acedemic
Course Content	The course includes cell, Mendelian genetics, extensions of Mendelian genetics, central dogma of molecular biology, gene mutation and repair mechanisms and recombinant DNA technology.
Goal	The course aims to overview of the principles of plant and animal genetics in agriculture including Mendelian and modern concepts of heredity. Provide extensive professional point of view to the central dogma of molecular biology. Developments in molecular genetics will be addressed through the biochemistry of the gene and the nature of gene action in prokaryotic and eukaryotic cells.
Course Duration	14 Weeks
Language of Instruction	English
Prerequisites	None
Recommended Resources	William S. Klug , Michael R. Cummings, Charlotte A. Spencer, Michael A. Palladino , Darrell J. Killian (2019) Concepts of Genetics, Pearson Education, Inc. Jocelyn E. Krebs, Elliott S. Goldstein, Stephen T. Kilpatrick (2018)Lewin's Genes XII, Jones & Bartlett Learning; 12 Edition T. A. Brown (2016) Gene Cloning and DNA Analysis: An Introduction, Wiley-Blackwell Larry Snyder and Wendy Champneys (2007) Molecular Genetics of Bacteria, AMS Press
Labrotory	-
Others	<ol style="list-style-type: none"> 1. The defined weekly course subject and content will be followed. However, in case of necessity, there may be changes in weekly course subjects and content. 2. Before starting the weekly lesson, the topics covered in the previous week within the first 5 minutes are reminded as student-teacher dialogue. 3. Attendance is compulsory. Signatures are taken from the participants.