

Ankara Üniversitesi
Kütüphane ve Dokümantasyon Daire Başkanlığı
Açık Ders Malzemeleri
Syllabus

Course Title and Code	CANCER CELL BIO478
Instructors	Fadime KIRAN, Assoc. Prof.
Course Level	Bachelor's Degree
Course Credit	3.0 (AKTS 5.0)
Course Type	Elective
Course Content	Neoplasia, classification of definition and epidemiology, characteristics of benign and malign neoplasms, tumor suppressor genes, oncogenes, determination of cellular oncogenes, oncogen products, mechanism of action of oncogenes on cells, carcinogenesis mechanisms, spreading stages of tumor cells karyotypic changes in tumors, tumor angiogenesis, cancer cachexia, cancer staging and grading, anti-tumor effect mechanisms, paraneoplastic syndromes, tumor antigens, tumor immunology, immunological escape mechanisms, immune system neoplasms, diagnostic methods for cancer, immunophenotyping, common cancer types, methods used in cancer treatment and new developments, comparative examination of cancer tissue sections in light microscope.
Course Goals	To teach the structure, morphological and molecular properties of cancer cell theoretically and practically; to give basic information about effective mechanisms against carcinogenesis, metastasis and cancer.
Learning Outcomes	1) Explains the general characteristics of cancerous cells and the distinction between them and normal cells. 2) Discerns the formation of cancer, the stages of spread and associates it with effective mechanisms against cancer. 3) Distinguishes common types of cancer and follows new developments used in cancer treatment.
Course Time	2+2
Language of Instruction	English
Prerequisites	None
Recommended Sources	1)Weinberg RA. The Biology of Cancer. First edition. Garland Science, 2006. 2)Pecorino L. Molecular Biology of Cancer – Mechanisms, Targets & Therapeutics. Oxford University Press, 2008.