



PCB6281:

Cancer Immunotherapy

CRN#: *****, Section 001, 4 Credit Hours

CAS / Molecular Biosciences

COURSE DESCRIPTION

I. University Course Description

This course focuses on Cancer Immunotherapy. This course will cover cancer in the immune system as well as basic and applied aspects of tumor immunology. Topics typically include:

- Tumor Immunogenicity
- Transplant Immunity
- Vaccine Strategies
- Checkpoint Blockade
- Gene-Based Therapies
- Adoptive T cell Therapies
- Hematologic Malignancies
- Immune Modulation
- Design of Clinical Trials
- Immune Monitoring

II. Course Purpose

This course provides an in depth understanding of cancer immunotherapy principles and current practice.

III. Course Objectives

To develop an in-depth understanding of the development and function of current strategies for immunotherapy. This course is aimed at graduate students in Cancer Biology, Cancer Immunology, and Immunotherapy, or those in related disciplines who wish to obtain an advanced perspective on immunologic knowledge and current research.

IV. Student Learning Outcomes

At the conclusion of the course students will be able to discuss in detail immunotherapeutic strategies for the treatment of cancer.