CANCER DISCOVERY & TRANSLATIONAL SCIENCE (CDTS) – CERTIFICATE

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The Certificate program in Cancer Discovery & Translational Science is available to Mayo Clinic professionals who are working in cancer related disciplines. Doctoral candidates may be considered. Potential candidates for the degree must hold Mayo Clinic appointments of sufficient duration to complete the program requirements.

Course Work

The curriculum for the Certificate consists of 12 credits. The student must complete all of the required courses listed below:

Course Requirements

Code	Title	Hours
BMB 5000	Cancer Biology I: Introduction to Cancer Biology: Molecular, Cellular and Genetic Basis of Cancer	3
BMB 6070	Cancer Biology II: Molecular Mechanisms of Cancer: Signal Transduction Pathways and Networks	3
Total Hours		**6**

Elective Courses

Code	Title	Hours
Students have the option to complete these courses within a given degree plan. A minimum of 6 credits are required.		**6**
BMB 5350	Hormones and Cancer	1
BMB 6510	Cancer Biology Journal Club	1
CTSC 5300	Foundations of Epidemiology	1
CTSC 5400	Introduction to Bioinformatics Concepts and Core Technologies for Individualized Medicine Approaches	1
CTSC 5720	Clinical Trials Design and Conduct	1
IMM 6865	Regenerative T Cell Immunotherapy and Cellular Engineering	3
IMM 6884	Tutorial in Generation and Function of T Cells	2
MPET 6814	Cellular Pharmacology of Agents that Target Cancer	2
CAN 6999	Independent Study in Cancer Biology	1

Suggested Sequence

This is a suggested sequence based on a summer term start. Individual course plans may vary depending on true start date, program, employment/ personal commitments, and research interests. Be sure to confirm you have met your requirements using your degree planning tool. Course offerings may vary slightly. Current course offerings are posted in the course catalog.

Code	Title	Hours
First Year - Summer Term		
Electives		

Code	Title	Hours
First Year - Fall Term		
BMB 5000	Cancer Biology I: Introduction to Cancer Biology: Molecular, Cellular and Genetic Basis of Cancer	3
BMB 6510	Cancer Biology Journal Club	1

Code	Title	Hours
First Year - Winter Term		
BMB 6070	Cancer Biology II: Molecular Mechanisms of Cancer: Signal Transduction Pathways and Networks	3
Electives		

Code	Title	Hours
First Year - Spring Term		
Electives		