

# CANCER (CAN) - CONCENTRATION

MPET 6814	Cellular Pharmacology of Agents that Target Cancer	2
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The Concentration in Cancer is open to all PhD and MD-PhD students from all MCGSBS training programs to provide the opportunity to integrate Cancer coursework into their degree plan and inform their thesis research.

- Bruce F. Horazdovsky, Ph.D., Program Director

Eligible learners may declare concentration using the appropriate form. See Concentration Declaration Procedure ([https://nam12.safelinks.protection.outlook.com?url=https%3A%2F%2Fmayoclinic.onbaseonline.com%2Fmceidp%2Fdocpop%2Fdocpop.aspx%3FKT611\\_0\\_0\\_0%3DDOCCMAN14-0000016108%26clienttype%3Dhtml%26doctypeid%3D1112&data=05%7C02%7CMGSADMINASST%40mayo.edu%7C4b01df32014e498d7de808dc769263c1%7Ca25fff9c3f634fb29a8ad9bdd0321f9a%7C0%7C0%7C638515618317611354%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAilCJQljoiv2luMzliLCJBTiil6Ik1haWwiLCJXVCi6Mn0%3D%7C0%7C%7C%7C&sdata=c1bv5o28r5CzvZREq5quqiZg%2BxV6fhwQLsQBBalEIHM%3D&reserved=0](https://nam12.safelinks.protection.outlook.com?url=https%3A%2F%2Fmayoclinic.onbaseonline.com%2Fmceidp%2Fdocpop%2Fdocpop.aspx%3FKT611_0_0_0%3DDOCCMAN14-0000016108%26clienttype%3Dhtml%26doctypeid%3D1112&data=05%7C02%7CMGSADMINASST%40mayo.edu%7C4b01df32014e498d7de808dc769263c1%7Ca25fff9c3f634fb29a8ad9bdd0321f9a%7C0%7C0%7C638515618317611354%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAilCJQljoiv2luMzliLCJBTiil6Ik1haWwiLCJXVCi6Mn0%3D%7C0%7C%7C%7C&sdata=c1bv5o28r5CzvZREq5quqiZg%2BxV6fhwQLsQBBalEIHM%3D&reserved=0)). By declaring a concentration through this procedure, the concentration will appear on a student's academic transcript. Students may only declare established concentrations and must be in a degree seeking program to declare a concentration. Students may only declare one official concentration.

## Course Work

The curriculum for the Concentration 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
BMB 6510	Cancer Biology Journal Club	1
<b>Total Hours</b>		<b>7</b>

### Elective Courses

Code	Title	Hours
<b>Students have the option to complete these courses within a given degree plan. A minimum of 5 credits are required.</b>		<b>5</b>
BMB 5350	Hormones and Cancer	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