

CANCER BIOLOGY (M.S.)

The MS program in Cancer Biology offers a strong didactic and laboratory curriculum in cancer biology with a major focus on molecular oncology. Our goal is to provide intensive research training for students who are interested in a career in academia, medicine, industry, or related careers in which first-hand research experience is an asset. Research interests in the Department of Oncology are diverse and dynamic, allowing students to choose from a broad spectrum of topics for their research thesis. Students are encouraged to attend weekly departmental seminars, student journal club, and annual symposia. These regular interactions between students and faculty help our students develop networking and oral communication and collaboration skills for future success.

Admission Requirements

Admission to the MS program is contingent upon admission to the Graduate School (<http://bulletins.wayne.edu/graduate/general-information/admission/>) and the graduate programs of the School of Medicine (<http://bulletins.wayne.edu/graduate/school-medicine/programs/>). Qualified applicants must have a BS or BA degree from an accredited college or university, preferably with a major in biology, chemistry, physics, or a closely related discipline. A complete application includes the basic application form, personal statement, official transcripts from previous institutions, and three letters of reference. International students must be proficient in English as determined by satisfactory performance on the Test of English as a Foreign Language (TOEFL) examination. TOEFL scores should be reported to Wayne State University using institution code 1898. Applications must be submitted online by March 1st. Graduate School Admissions policies can be found at the Office of Graduate Admissions (<https://gradschool.wayne.edu/admissions/>).

Contact Information

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The master's degree in Cancer Biology is offered under Plan A only. A minimum of 30 credits, eight of which must be from thesis research, and the completion of an original research project are required to receive a master's degree. The coursework includes 12 credits of compulsory courses and 10 credits of elective courses (listed below). A minimum GPA of 3.0 must be maintained throughout the master's program. Students should select an advisor and committee as early as possible in the second semester of year 1 to begin full time thesis research. Students should strive to publish one peer-reviewed paper as first or second author to demonstrate the quality of their research.

Code	Title	Credits
Required Courses		12
MGG 7010	Molecular Biology and Genetics	
BMB 7010	General Biochemistry Lecture	
CB 7210	Fundamentals of Cancer Biology	
CB 7800	Rigor and Reproducibility in Cancer Biology	
Elective Courses (select 10 credits from the following)		10
CB 7220	Molecular Biology of Cancer Development	
CB 7240	Principles of Cancer Therapy	

CB 7300	Special Topics in Cancer Biology	
CB 7410	Cancer Immunology and Immunotherapy	
CB 7430	Cancer Epidemiology	
CB 7460	Mechanisms of Neoplasia: Alterations to Cellular Signaling	
CB 7600	Applied Cancer Biostatistics	
MGG 7030	Functional Genomics and Systems Biology	
Thesis course		8
CB 8999	Master's Thesis Research and Direction	
Total Credits		30