

**Cancer Biology (CANB) Theme  
2022-2023 Academic Requirements**

COURSES	PLANNED	COMPLETED
<b>Lab Rotations</b>		
GBS 795- Lab Rotation 1 (1 hour)	1 <sup>st</sup> Fall	
GBS 796- Lab Rotation 2 (1 hour)	1 <sup>st</sup> Fall	
GBS 797- Lab Rotation 3 (1 hour)	1 <sup>st</sup> Spring	
GBS 794- Lab Rotation 4 (1 hour), if needed	1 <sup>st</sup> Summer	
<b>Core Courses</b>		
GBS 707- Basic Biochemistry and Metabolism (2 hours)	1 <sup>st</sup> Fall	
GBS 708- Basic Genetics and Molecular Biology (2 hours)	1 <sup>st</sup> Fall	
GBS 709- Basic Biological Organization (2 hours)	1 <sup>st</sup> Fall	
GBS 701- Core Concepts in Research: Critical Thinking/Error Analysis (1 hr)	1 <sup>st</sup> Fall	
<b>Module Courses- Exceptions require approval of theme director</b>		
GBS 770- Pathobiology of Cancer (January, 2 hours)	1 <sup>st</sup> Spring	
GBS 769- Carcinogenesis (February, 2 hours)	1 <sup>st</sup> Spring	
GBS 752- Intro to Pathobiology (March, 2 hours) OR	1 <sup>st</sup> Spring	
GBS 723- Model Systems for Genetic Analysis (March, 2 hours)		
GBS 774- Cancer Immunology (April, 2 hours)	1 <sup>st</sup> Spring	
<b>Theme Required Courses</b>		
GBS 777- Cancer Biology Seminar (1 hour) <i>-Attend in 1<sup>st</sup> year, but do not register</i>	Every fall & spring, 2 <sup>nd</sup> year to graduation	
<b>GBS Required Courses</b>		
GRD 717- Principles of Scientific Integrity (3 hours)	1 <sup>st</sup> Summer	
Grant-writing/Scientific-writing (2 hours) <i>-Course selected: GBS 716, GBS 725, GBSC 726, GRD 709</i>		
Biostatistics (3 hours) <i>-Course selected: GRD 770, BST 611, BST 612, BY 755, PY 716</i>	2 <sup>nd</sup> year	
Journal Clubs (1 hour) <i>-Chosen in consultation with mentor</i>	Every fall & spring, 2 <sup>nd</sup> year to graduation	
Three Advanced Courses (3 hours each) <i>-Chosen in consultation with mentor and thesis committee</i>		
Research (Non-dissertation & Dissertation) <i>-Student must complete 24 hours total of dissertation research</i>	Every semester beyond lab rotations	

**Notes:**

- Students must be registered for 9 hours each semester, for a total of 27 hours per year. Equity and Diversity Scholars must register for 32 hours total per year. Any hours over must be approved by the program.
- Students must be admitted to candidacy for a minimum of 1 year before the thesis defense

**Additional Theme Requirements:**

- Publications: Cancer Biology students should have at least two published first author research manuscripts related to their thesis work. Exceptions can be approved by the thesis committee.
- Presentations: At least one presentation at a national or international scientific meeting