

**Cancer Biology (CANB) Theme  
2018-2019 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> Spring                                  |           |
| <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                                    |           |
| <b>Module Courses- exceptions require approval of theme director</b>  |   |           |
| GBS 710- Cell Signaling (January, 2 hours)  | 1 <sup>st</sup> Spring                                  |           |
| GBS 720- Genomic Structure and Function (February, 2 hours)   | 1 <sup>st</sup> Spring                                  |           |
| GBS 769- Carcinogenesis (March, 2 hours)  | 1 <sup>st</sup> Spring                                  |           |
| GBS 774- Cancer Immunology (April, 2 hours)   | 1 <sup>st</sup> Spring                                  |           |
| <b>Theme Required Courses</b>   |   |           |
| GBS 723- Model Systems for Genetic Analysis (2 hours)   | 1 <sup>st</sup> Summer                                  |           |
| GBS 770- Pathobiology of Cancer (2 hours)<br>- Offered summer term, fall years                                | 1 <sup>st</sup> or 2 <sup>nd</sup> Summer               |           |
| GBSC 742.VTB- CANB Student Theme Meeting (1 hour)<br>- Attend in 1 <sup>st</sup> year, but do not register    | Every fall & spring, 2 <sup>nd</sup> year to graduation |           |
| GBS 777- Cancer Biology Seminar<br>- Attend in 1 <sup>st</sup> year, but do not register                      | 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)<br>- Course selected: GBS 716, GBS 725, GBS 768, GBSC 726          | 2 <sup>nd</sup> year                                    |           |
| Biostatistics (3 hours)<br>-Course selected: GBSC 731, BST 611, BST 612, BY 755, PY 716                       | 2 <sup>nd</sup> year                                    |           |
| Journal Clubs (1 hour)<br>-Chosen in consultation with mentor   | Every fall & spring, 2 <sup>nd</sup> year to graduation |           |
| Three Advanced Courses (3 hours each)<br>-Chosen in consultation with mentor and thesis committee             |   |           |
| Research (Non-dissertation & Dissertation)<br>- Student must complete 24 hours total of dissertation research | 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: At least two published papers
- Presentations: At least one presentation at a national or international scientific meeting