<table>
<thead>
<tr>
<th>Fall Term*</th>
<th>Spring Term*</th>
<th>Summer Term*</th>
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</table>
| **Required Coursework:**  
GBS 707: Basic Biochemistry (9/19/2017-10/30-2017) 30 days  
GBS 708: Basic Genetics (8/8/2017-9/18/2017) 29 days  
GBS 709: Basic Bio. Organization (except MSTP)  
MCP Seminar (Weekly) (10/31/2017-12/15/2017) 29 days with week of Thanksgiving off  
Research Rotations:  
Lab Rotation 1: GBS 795 (Aug. 14- Oct. 13)***  
Lab Rotation 2: GBS 796 (Oct. 16-Dec. 15)(start)  
| **Required Coursework:**  
GBS 703: Research Analysis & Presentation  
GRD 717: Bioethics (or in spring)  
Journal Club (4 to complete) †  
| **Required Courses:**  
GBS 726: Scientific Comm. & Review (May)  
GBS 722: Sp. Topic: Intro to Biostats (June/July)  
Non-dissertation Research: GBS 798^  |
| **Non-dissertation Research:** GBS 798^  
**Required Coursework:**  
***GBS 703: Res Analysis & Presentation  
GRD 717: Bioethics (or in spring)  
Journal Club (4 to complete) †  
| **Non-dissertation Research:** GBS 798^  
**Required Coursework:**  
Journal Club (4 to complete) †  
GRD 717: Bioethics (if not taken in the fall)  
| **Required Coursework:**  
Journal Club (4 to complete) †  
| **Elective Courses** (A total of 3 advanced courses to complete which should be decided by mentor and thesis committee)  
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| **Elective Courses** (A total of 3 advanced courses to complete which should be decided by mentor and thesis committee)  
| **Submit updated CV** (target date Sept. 1)  
| **Committee formed** (target date is Jan. 2)  
| **Submit updated CV** (target date Sept. 1)  
| **Committee Meeting** (1 per year min.)  
| **Qualifying Exam** (target Oct./Nov. third year)**  
| **Dissertation Research:** GBS 799^  
**Required Coursework:**  
***GBS 703: Res Analysis & Presentation  
Journal Club (4 to complete) †  
| **Dissertation Research:** GBS 799^  
**Required Coursework:** None  
| **Dissertation Research:** GBS 799^  
| **Required Coursework:**  
***GBS 703: Res Analysis & Presentation  
Journal Club (4 to complete) †  
| **Required Coursework:** None  
| **Dissertation Research:** GBS 799^  
| **Elective Courses** (A total of 3 advanced courses to complete which should be decided by mentor and thesis committee)  
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| **Elective Courses** (A total of 3 advanced courses to complete which should be decided by mentor and thesis committee)  
| **Submit updated CV** (target date Sept. 1)  
| **Committee Meeting** (1 per year min.)  
| **Committee Meeting** (1 per year min.)  
| **Committee Meeting** (1 per year min.)  

*Fall Term*  
Spring Term*  
Summer Term*  

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**Notes:**  
***Lab Rotation 3: GBS 797 (Jan. 8 - March 9) (conclude)  
Lab Rotation 4: GBS 794 (March 12 - May 9) (if needed)  
Mentor Selection (target date May 1)  
Non-dissertation Research: GBS 798^  
Required Coursework:  
Journal Club (4 to complete) †  
Elective Courses (A total of 3 advanced courses to complete which should be decided by mentor and thesis committee)  
Submit updated CV (target date Sept. 1)  
Committee Meeting (1 per year min.)  
Qualifying Exam (target Oct./Nov. third year)**  
Dissertation Research: GBS 799^  
Required Coursework: None  
Elective Courses (A total of 3 advanced courses to complete which should be decided by mentor and thesis committee)  
Submit updated CV (target date Sept. 1)  
Committee Meeting (1 per year min.)  
Dissertation Research: GBS 799^  

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**Course Descriptions:**  
GBS 707: Basic Biochemistry  
GBS 708: Basic Genetics  
GBS 709: Basic Bio. Organization  
GBS 750: Nerves, Muscles, and Bones  
GBS 751: Heart, Lung, and Kidney  
GBS 752: GI, Endo., Immune  
GBS 753: Pharm. and Mol. Medicine  
GBS 754: Res Analysis & Presentation  
GRD 717: Bioethics  
GBS 793: Dissertation Research  
GBS 798: Non-Dissertation Research  
GBS 726: Scientific Comm. & Review  
GBS 722: Sp. Topic: Intro to Biostats  
GBS 799: Dissertation Research  

**Timeline:**  
- Fall Term: 9/19/2017-10/30/2017  
- Spring Term: 8/8/2017-9/18/2017  
- Summer Term: 10/31/2017-12/15/2017  
- Thanksgiving: Week of Thanksgiving off  
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- Thanksgiving: Week of Thanksgiving off  

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**Contact Information:**  
For more information, please contact the Program Director at 908-731-0714 or email patho@ub.edu.
### Dissertation Research: GBS 799^

#### Required Coursework:
- **GBS 703:** Res Analysis & Presentation *(if not defending)*

#### Additional theme requirements

- **Publications:** Two first-authored publications recommended overall
- **Presentations:** One research presentation/year recommended, starting in Year 2

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*Each term registration, 9 credit hours

**Students must be admitted to candidacy for a minimum of 1 year before thesis defense.

*** Example Rotation dates, AY 2017-2018

**** Students must register each Fall unless in the semester of defense

† Students may count the same JClub twice toward completion of degree, but can only repeat one course, so that of the four, at least 3 are unique. Students should not participate in more than 2 JClubs per term.

^ MSTP students register for MSTP 798 or MSTP 799