<table>
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<th>Fall Term*</th>
<th>Spring Term*</th>
<th>Summer Term*</th>
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</table>
| **Required Coursework:**  
GBS 707: Basic Biochemistry  
GBS 708: Basic Genetics  
GBS 709: Basic Bio. Organization (except MSTP)  
MCP Seminar (Weekly)  
Research Rotations:  
Lab Rotation 1: GBS 795 (Aug.24-Nov.18)**  
Lab Rotation 2: GBS 796 (Nov. 19-Mar. 1)(start)  | **Required Coursework:**  
GBS 750: Nerves, Muscles, and Bones  
GBS 751: Heart, Lung, and Kidney  
GBS 752: GI, Endo., Immune  
GBS 753: Pharm. and Mol. Medicine  
Seminars (weekly): As selected  
Optional Coursework:  
BY 755: Biometry* (can be taken in Year 2 spring)  
Research Rotations:  
Lab Rotation 2: GBS 796 (Nov. 19-Mar. 1)(conclude)  
Lab Rotation 3: GBS 797 (Mar. 2-May 26)  | GBS 747: Sp. Topic  
Scientific Comm. & Review (May)  
Non-dissertation Research: GBS 798^  
Required Courses: None |
| Non-dissertation Research: GBS 798^  
Required Coursework:  
GBS 703: Res Analysis & Presentation  
GRD 717: Bioethics (or in spring)  
Journal Club (4 to complete) †  
Elective Courses (3 courses to complete)  
Submit updated CV (target date Sept. 1)  
Committee formed (target date is Jan. 2) | Non-dissertation Research: GBS 798^  
Required Coursework:  
Journal Club (4 to complete) †  
GRD 717: Bioethics (if not taken in the fall)  
BY 755: Biometry (if not taken in Year 1 spring)  
Elective Courses 3 courses to complete)  | Non-dissertation Research: GBS 798^  
Required Coursework:  
Journal Club (4 to complete) †  
Elective Courses 3 courses to complete) |
| Non-dissertation Research: GBS 798^  
Required Coursework:  
GBS 703: Res Analysis & Presentation  
Journal Club (4 to complete) †  
Elective Courses (3 courses to complete)  
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  
Journal Club (4 to complete) †  
Elective Courses (3 courses to complete)  | Dissertation Research: GBS 799^  
Required Coursework: None  
Elective Courses (3 courses to complete) |
| Dissertation Research: GBS 799^  
Required Coursework:  
GBS 703: Res Analysis & Presentation  
Journal Club (4 to complete) †  
Elective Courses (3 courses to complete)  
Submit updated CV (target date Sept. 1)  
Committee Meeting (1 per year min.)  | Dissertation Research: GBS 799^  
Required Coursework: None  
Elective Courses (3 courses to complete) | Dissertation Research: GBS 799^  
Required Coursework: None  
Elective Courses (3 courses to complete) |
**Pathobiology and Molecular Medicine**  
**Theme Training Plan**

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<tbody>
<tr>
<td><strong>Dissertation Research: GBS 799^</strong></td>
<td><strong>Dissertation Research: GBS 799^</strong></td>
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<tr>
<td><strong>Required Coursework:</strong></td>
<td><strong>Dissertation Defense (public and private)</strong></td>
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<tr>
<td>GBS 703: Res Analysis &amp; Presentation <em>(if not defending)</em></td>
<td>Graduation</td>
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*Each term registration, 9 credit hours; IF a student elects to take BY 755: Biometry (3 hrs) in Spring of Year 1, however, he/she will have 12 hours this term and should only register for 6 hours in the following Summer term.  
**Students must be admitted to candidacy for a minimum of 1 year before thesis defense.  
*** Example Rotation dates, AY 2015-2016  
^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

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