### University of Toledo

**Graduate Program Revision**

**Contact Person:** Robert M. Blumenthal, PhD  
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<table>
<thead>
<tr>
<th>Present</th>
<th>Proposed</th>
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</thead>
<tbody>
<tr>
<td><strong>College</strong></td>
<td>Medicine</td>
</tr>
<tr>
<td><strong>Dept/Academic Unit</strong></td>
<td>School of BRIM</td>
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<tr>
<td><strong>Program Code</strong></td>
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<tr>
<td><strong>Program Name</strong></td>
<td>Professional Science Masters Program in Biomarkers and Diagnostics</td>
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**Minimum number of credit hours for completion (if changed):**  
Present: 40  
Proposed: 37

List all courses which comprise the certificate or degree and identify term offered (Summer/Fall/Spring):

**FALL COURSES:**
- BMSP6330 CPRA in Proteins 2.5cr
- BMSP6340 CPRA in Genes 2.5cr
- BMSP6360 CPRA in Membranes 3cr
- INDI6020 On Being a Scientist 1cr
- BIPG5100 Fund of BPG 3cr
- HURM6730 Performance Management 3cr

**TOTAL FALL:** 15cr

**SPRING COURSES:**
- BMSP6350 CPRA in Signal Transduction 3cr
- BIPG6100 Introduction to Bioinformatics Computations 3cr
- BRIM6200 Biomarker Discovery, Valid./Implementation 3cr
- HURM6720 Adv Negotiation & Conflict Resolution 3cr
- MGMT6150 Leading and Developing Yourself 3cr

**TOTAL SPRING:** 15cr

**SUMMER COURSES:**
- BIDIS5000 Biostat. Methods for Biomarkers (DL/ONLINE) 3cr
- BIDIS5200 Readings in Biomarkers (DL/ONLINE) 1cr
- BIDIS5100 Internship 6 cr

**TOTAL Summer:** 10cr

**GR. TOTAL:** 40cr

**Identify delivery method:** In Class

**Proposed Effective Term:** 2014 40 (Fall)

**FALL COURSES:**
- BMSP6330 CPRA in Proteins 2.5cr
- BMSP6340 CPRA in Genes 2.5cr
- INDI6020 On Being a Scientist 1cr
- BIPG5100 Fund of BPG 3cr

**EITHER:**
- HURM6720 Adv Negotiation & Conflict Resolution 3cr
  - OR: HURM6700 Human Resources Management 3cr
- MGMT6150 Leading and Developing Yourself 3cr
  - OR: MGMT6160 Leading with Power & Influence 3cr

**TOTAL FALL:** 15cr

**SPRING COURSES:**
- BMSP6350 CPRA in Signal Transduction 3cr
- HURM6730 Performance Management 3cr
- BIPG6100 Introduction to Bioinformatics Computations 3cr
- BRIM6200 Biomarker Discovery, Valid./Implementation 3cr

**TOTAL SPRING:** 12cr

**SUMMER COURSES:**
- BIPG5200 Statistical Methods in BPG (DL/ONLINE) 3cr
- BIDIS5200 Readings in Biomarkers (DL/ONLINE) 1cr
- BIDIS5100 Internship 6 cr

**TOTAL SUMMER:** 10cr

**GR. TOTAL:** 37cr

**Identify delivery method:** In Class
<table>
<thead>
<tr>
<th>Role</th>
<th>Signature</th>
<th>Date</th>
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<tbody>
<tr>
<td>Department Curriculum Authority</td>
<td><strong>Blumenthal</strong></td>
<td>01-05-14</td>
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<tr>
<td>Department Chairperson</td>
<td><strong>Blumenthal</strong></td>
<td>01-05-14</td>
</tr>
<tr>
<td>College Curriculum Authority or Chair</td>
<td><strong>Welsh</strong></td>
<td>01-05-14</td>
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<td>College Dean</td>
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**For Administrative Use Only**

- Effective Date: 
- CIP Code: 
- Subsidy Taxonomy: 
- Program Code: 
- Instruction Level: 
**PROPOSED CHANGES TO PSM DEGREE CURRICULUM**

The majority of the following changes were necessary to the PSM curriculum in order for students to take the business courses in the terms when they are being offered. Total number of credits for the degree would now be 37.

**BMSP6360 Current Problems & Research Approaches (CPRA) in Membranes 3cr**
Course removed. It is not required for any other degree offered by our Program. By removing it from the PSM curriculum, the total credits for fall will drop from 18 to 15.

**HURM6730 Performance Management (3cr)**
Originally listed as a fall course, but is offered only in the spring semester. It has been moved to the spring term.

**HURM6720 Adv. Negotiation & Conflict Resolution (3cr) and MGMT6150 Leading & Developing Yourself (3cr)**
Both courses originally listed in the Spring semester, but offered only in the fall. They have been moved to the fall term.

**HURM6700 Human Resources Management (3cr)**
Added to the fall semester to give students an alternative choice when HURM6720 Adv. Negotiation & Conflict Resolution (3cr) is not offered.

**MGMT6160 Leading with Power & Influence (3cr)**
Added to the fall semester to give students an alternative choice when MGMT6150 Leading and Developing Yourself (3cr) is not offered.

**BIPG5200 Statistical Methods in BPG (3cr)**
Currently a required course for all BPG degrees. Will be modified for the PSM degree (same lectures, different homework assignments) and offered online during the summer term. It will replace BIDIS000 Biostatistical Methods for Biomarkers (3cr).