A. **Required Coursework:**

1. PSL 7011 Basic Integrative Physiology Lecture I (4 credits; F)
2. PSL 7031 Basic Integrative Physiology Lecture II (4 credits; W)
3. PSL 7020 Basic Physiology Lab I (2 credits; F)
4. PSL 7040 Basic Physiology Lab II (2 credits; W)
5. PSL 7890 Physiology Seminar (1 credit/semester; F & W)
   
   2 credits are required (*Note: Attendance at seminars is mandatory for all graduate students!*)
6. Graduate level biostatistics course (e.g. FPH 7015, 4 credits; F, formally C M 6010/FPH 6010) or equivalent (*Equivalent course at WSU: EER 7630, 3 credits; F, W, & SS*)
7. BMB 7010 Biochemistry (4 credits; F) or equivalent
8. MBG 7010 Molecular Biology (3 credits; F) or equivalent

   *(Note: IBS 7010 (5 credits) satisfies MBG 7010 and BMB 7010 requirements)*
9. **Advanced Physiology Courses (listed below)**
   
   **Minimum of 3 courses or 6 credits required**

   Course list:
   
   - PSL 7400 Adv. Respiratory Physiology (2 credits; W)
   - PSL 7500 Developmental Physiology 3 (2 credits; F/even years)
   - PSL 7550 Adv. Renal Physiology (2 credits; F/odd years)
   - PSL 7600 Adv. Cardiovascular Physiology (2 credits; F)
   - PSL 7610 Biological Basis of Sleep (2 credits; W/odd years)
   - PSL 7640 Cell & Molecular Physiology (3 credits; W/even years)
   - PSL 7660 Neurophysiology (3 credits; F/odd years)
   - PSL 7680 Endocrinology (4 credits; W)
   - PSL 7690 Principles of Reproductive Biology (3 credits, F even years)
   - PSL 7700 Embryonic Stem Cell Biology (3 credits; W even years)
   - PSL 7710 Disease States and Reproduction (1 credit; SS)
   - PSL 7730 Reproductive Science: Teratology (3 credits; F)
   - PSL 7740 Developmental Systems in Reproductive Biology (3 credits; W)
   - PSL 7770 Perinatal Biology and Reproduction (2 credits; W)
   - PSL 7910 Readings in Molecular Reprod. & Chromatin Sys. Biol. (1 credit; F)

   *(Note: Student may elect to substitute IBS 7020 Cell for PSL 7640 Cell Physiology OR IBS 7050 Neuroscience for PSL 7660 Neurophysiology BUT only one substitution will be allowed)*

10. **Minor Requirements:**
    
    Minimum of 6 credits multidisciplinary courses (non-physiology)

11. **IBS Fellows Only-Additional Course Requirements**

    *Either IBS 7010 or IBS 7020 must be taken during 1st semester*
    
    a. IBS 7010 Biomedical Molecular Biology (5 credits; F)
    b. IBS 7020 Biomedical Cell Biology (5 credits; F)
    c. Four credits from the IBS Systems courses below:
       
       - IBS 7030 Biomedical Functional Genomics (2 credits; W)
       - IBS 7040 Biomedical Cardiovascular, Respiratory & Renal Systems (2 credits; W)
       - IBS 7050 Biomedical Neurobiology (2 credits; W)
       - IBS 7060 Biomedical Endocrine & Reproductive Systems & Development (2 credits; W)
       - IBS 7080 Biomedical Gastrointestinal Systems & Nutrition (1 credit; W)
       - IBS 7090 Biomedical Immunology (2 credits; W)

12. **Optional Research Courses:**

    *(These courses require prior authorization)*
    
    Special Problems PSL 7880 - 1-8 credits (max of 8 credits can be used towards degree)
    
    Arranged Research PSL 7996 - 1-15 credits (max of 15 credits can be used towards degree)

13. **Total didactic credits required:**
    
    Ph.D. 60 credits

B. **Dissertation Research & Direction:**

   **Ph.D. Program:** PSL 9991-PSL 9994 (7.5 credits each). 30 credits required.

8/4/2011
Recommended Matriculation Schedule:

- Lab rotation (First 2 semesters)
- Select an advisor (By end of 2nd semester)
- Comp. Exam (By end of first year or after completion of PSL Lecture sequence)
- Plan of Work (POW) (During 3rd semester)
- Thesis/Dissertation outline (by 4th semester)
- Prospectus (by 4th semester)
- Selection and meeting with Research Advisory Committee (by 3rd semester)
- Oral Exam (by 4th semester)
- Thesis/Dissertation Defense (at end of final semester)