

**PHYSIOLOGY MATRICULATION GUIDE**  
**Master's Degree 2017-2018**

A. Required Coursework:

1. PSL 701x Basic Integrative Physiology Lecture I (4 credits; F)
2. PSL 703x Basic Integrative Physiology Lecture II (4 credits; W)
3. PSL 6300 Biotechnology: Techniques and Applications (2 credits; F)  
*Optional:* PSL 6310 Biotechnology: Tech. & Appl. Lab (2-5 credits; W)
4. PSL 7890 Physiology Seminar (1 credit/semester; F & W)  
**M.S. Program** – 1 credit required  
**(Note: Attendance at seminars is mandatory for all graduate students!)**
5. Advanced Courses (listed below)  
**(Note: Student may elect to substitute IBS 7050 Neuroscience for PSL 7660 Neurophysiology)**

**M.S. Program** - 2 Advanced level physiology courses for a minimum of 4 credits.

- PSL 7060 Current Literature (1 credit; F/W)
- PSL 7215 Nanobiotechnology (2 credits; W)
- PSL 7400 Adv. Respiratory Physiology (2 credits; W/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/even 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/odd years)
- PSL 7710 Disease States and Reproduction (1 credit; SS)
- PSL 7730 Reproductive Science: Teratology (3 credits; F/even years)
- PSL 7740 Developmental Systems in Reproductive Biology (3 credits; W)
- PSL 7770 Perinatal Biology and Reproduction (2 credits; W)
- PSL 7775 Current Research Topics in the Reproductive Sciences (1 credits; F)
- PSL 7825 Membrane Physiology: protein transport, lipid metabolism and human diseases (2 credits; F)
- PSL 7910 Readings in Molecular Male Reprod. & Chromatin Sys. Biol (1 credit; F)

6. Minor Requirements:

**M.S. Program:** = 4 credits of multidisciplinary courses other than Physiology

7. Optional Courses:

- Physiology Lab 1 PSL 7020 (2 credits, F)
- Physiology Lab 2 PSL 7040 (2 credits, W)
- Special Problems PSL 7880 - 1-8 credits
- Arranged Research PSL 7996 - 1-15 credits

Total didactic credits required:

M.S. 22 credits

B. Thesis Research:

**M.S. Program:** PSL 8999 (1-8 CR.). 8 credits required.