# PHYSIOLOGY (PHS)

**PHS 626 Neurophysiology I** **1 Credit hour**
To study and understand the basic functional principles of the cells of the nervous system, and organization of cells into functional systems.
**Pre-req:** BMS 600.
**Grade Mode:** Normal Grading Mode

**PHS 627 Neurophysiology II** **1 Credit hour**
To study and understand the major functional systems of the brain.
**Pre-req:** PHS 626.
**Grade Mode:** Normal Grading Mode

**PHS 628 Mammalian Neurophysiology** **2 Credit hours**
This coures is a basic introductory, survey course covering neurophysiology from sub-cellular level to behavioral level.
**Grade Mode:** Normal Grading Mode

**PHS 629 Mammalian Physiology** **6 Credit hours**
A study of mammalian systems including pulmonary, renal, cardiovascular, gastrointestinal, endocrinological and nervous systems. Emphasis will be placed on homeostatic mechanisms and on experimental approaches to physiology.
**Grade Mode:** Normal Grading Mode

**PHS 630 Experimental Physiology** **1 Credit hour**
A laboratory course in mammalian physiology which includes instruction in surgical preparation, bioinstrumentation technique and open-chest surgery in dogs.
**Grade Mode:** Normal Grading Mode

**PHS 631 Physiology Practicum** **2 Credit hours**
Experience in laboratory instruction of medical and graduate students in the mammalian physiology laboratory.
**Grade Mode:** Normal Grading Mode

**PHS 632 Physiology of Sleep** **1 Credit hour**
Detailed examination of changes in EEG, EMG, cardiorespira- tory function and ocular motility during sleep.
**Pre-req:** PHS 629.
**Grade Mode:** Normal Grading Mode

**PHS 634 Advanced Neurophysiology** **1-2 Credit hours**
Bioelectric potentials. A.C. and D.C. potentials, trans- cortical potentials,E.E.G., comeo-retinal potential, blood- CSF potential, etc.
**Pre-req:** PHS 629.
**Grade Mode:** Normal Grading Mode

**PHS 638 Adv Cardiovascular Phys** **1-2 Credit hours**
**Pre-req:** PHS 629.
**Grade Mode:** Normal Grading Mode

**PHS 639 Neurophys Res Tech** **3 Credit hours**
Class participants will be exposed to state-of-the-art neurophysiology research techniques while in the labor- atories of neurophysiology faculty.
**Grade Mode:** Credit/No Credit Grade Only

**PHS 661 Endocrinology** **3 Credit hours**
An in depth study of the endocrine system with special emphsis on the role of experimentation in the development of concepts in endocrine physiology (PR: BMS 600 or Equivalent; Permission)
**Pre-req:** BMS 600.
**Grade Mode:** Normal Grading Mode

**PHS 666 Physiology of the Cell** **3 Credit hours**
An in-depth study of selected specific topics in cell physiology.
**Pre-req:** BMS 600.
**Grade Mode:** Normal Grading Mode

**PHS 667 Experimental Appr to Phys** **4 Credit hours**
This course introduces students to the fundamental principles and research underlying the normal functioning of the cardiovascular, respiratory, renal, endocrine, reproductive, nervous, and gastrointestinal systems.
**Pre-req:** BMS 601 and BMS 602.
**Grade Mode:** Normal Grading Mode

**PHS 675 Special Topics** **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
**Grade Mode:** Normal Grading Mode

**PHS 676 Special Topics** **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
**Grade Mode:** Normal Grading Mode

**PHS 677 Special Topics** **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
**Grade Mode:** Normal Grading Mode

**PHS 701 Physiology** **8 Credit hours**
**Grade Mode:** Normal Grading Mode

**PHS 780 Elective Special Projects** **1 Credit hour**
**Grade Mode:** Normal Grading Mode

**PHS 785 Independent Study** **1-15 Credit hours**
Independent Study in Physiology is designed to allow the student the opportunity to work with a faculty member on a topic of special interest.
**Grade Mode:** Credit/No Credit Grade Only

**PHS 820 Medical Physiology** **1-18 Credit hours**
**Grade Mode:** Normal Grading Mode