PHYSICAL MEDICINE PMR
AND REHABILITATION

Department of Physical Medicine and Rehabilitation
College of Osteopathic Medicine

590 Special Problems
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 24 credits in all enrollments for this course. Each student works under faculty direction on an experimental, theoretical or applied problem in physical medicine and rehabilitation.

601 Medical Rehabilitation Clerkship
Fall, Spring, Summer. 2 to 12 credits. Fall: Michigan Capital Med. Spring: Michigan Capital Med. A student may earn a maximum of 12 credits in all enrollments for this course. Physical medicine and rehabilitation inpatient and ambulatory setting clinical experience, didactic sessions, case documentation and presentation, hospital rounds. Strong emphasis on evaluation of neuromusculoskeletal disorders and treatment of function deficits.

620 Directed Studies
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to juniors or seniors in the College of Osteopathic Medicine. Completion of Semester 6 in the graduate-professional program. Individual or group projects on special problems related to physical medicine and rehabilitation.

806 Advanced Neuroscience Techniques Laboratory
Spring, 3(0-9) Interdepartmental with Neuroscience, Psychology, Pharmacology and Toxicology; Radiology. Administered by Program in Neuroscience. RB: (PHM 827) R: Open only to doctoral students in the Neuroscience major. Methods and underlying principles of neuroscience research.

PHYSICS

Department of Physics and Astronomy
College of Natural Science

101 Concepts in Physics
Fall. 1(1-0) Conceptual foundations of physics emphasizing key experiments.

102 Physics Computations I
Spring, 1(0-3) P: (PHY 183 or concurrently or PHY 183B or concurrently or PHY 193H or concurrently or PHY 181B or concurrently) RB: (CSE 101 or CSE 231) Use of Mathematica to solve, analyze and graph equations and data from mechanics.

170 Investigations in Physics
Fall. 3(0-6) R: Approval of department. Experiments in optics, electronics, sound and mechanics; analysis of data using computers, library research and oral presentations.

181B Basic Physics I
Fall, Spring, Summer. 3 credits. P: (MTH 132 or MTH 152H or LBS 118) Not open to students with credit in LBS 271 or PHY 183 or PHY 183B or PHY 193H or PHY 231 or PHY 231B or PHY 231C, PHY 233B.

182B Basic Physics II
Fall, Spring, Summer. 3 credits. P: (PHY 183 or PHY 183B or PHY 181B or LBS 271 or PHY 193H or PHY 231 or concurrently and PHY 233B) or (PHY 231B or concurrently and PHY 233B) and (MTH 133 or MTH 153H or LBS 119) Not open to students with credit in LBS 272 or PHY 184 or PHY 184B or PHY 232 or PHY 294H.

183 Physics for Scientists and Engineers I
Fall, Spring. 4(5-0) P: (MTH 132 or MTH 152H or LBS 118) Not open to students with credit in LBS 164 or PHY 181B or PHY 183B or PHY 193H or PHY 231 or PHY 231B.

183A Physics I
Fall, Spring, Summer. 1 credit. P: (PHY 181B) Not open to students with credit in LBS 271 or PHY 183 or PHY 183B or PHY 193H or PHY 231 or PHY 231B or PHY 231C.

183B Physics for Scientists and Engineers II
Fall, Spring, Summer. 4 credits. P: (MTH 132 or MTH 152H or LBS 119) Not open to students with credit in LBS 271 or PHY 181B or PHY 183 or PHY 183B or PHY 294H or concurrently or PHY 294H or concurrently or PHY 231B or concurrently or LBS 271 or concurrently or PHY 183B or concurrently.

184 Physics for Scientists and Engineers II
Fall, Spring, Summer. 1 credit. P: (PHY 184 or PHY 184B or PHY 323 or PHY 294H, PHY 2323 or LBS 272. Topics from: standing wave phenomena, atoms, electromagnetic fields, alternating currents, optics, quantum mechanics, elementary particles. This course plus PHY 182B is equivalent to PHY 184B. 182B is exactly 3/4 of 184B and 184A is the other 1/4. This course is given in the competency based instruction format.

184B Physics for Scientists and Engineers II
Fall, Spring, Summer. 4 credits. P: (PHY 183 or PHY 183B or PHY 193H) or (PHY 181B and PHY 183A) or (PHY 231B and PHY 233B) or (LBS 271 and PHY 233B) and (MTH 133 or MTH 153H or LBS 119) Not open to students with credit in LBS 272 or PHY 184B or PHY 184 or PHY 184B or PHY 232 or PHY 294H or PHY 232B.

191 Physics Laboratory for Scientists, I
Fall, 1(0-3) P: (PHY 183 or concurrently or PHY 183B or concurrently or PHY 193H or concurrently or PHY 231 or concurrently or PHY 231B or concurrently or PHY 181B or concurrently) Not open to students with credit in PHY 251 or LBS 271L.

192 Physics Laboratory for Scientists, II
Spring. 1(0-3) P: (PHY 191 or MSM 211 or MSM 250) and (PHY 184 or concurrently or PHY 184B or concurrently or PHY 294H). This course is exactly 3/4 of 184B and 184A is the other 1/4. This course is given in the competency based instruction format.

193H Honors Physics I-Mechanics
Spring, 3(4-0) P: (MTH 133 or concurrently or MTH 153H or concurrently or LBS 119 or concurrently) Not open to students with credit in PHY 183 or PHY 183B or PHY 231 or PHY 231B or LBS 164 or PHY 181B.

201 Physics Computations II
Fall. 1(0-3) P: (PHY 184 or concurrently or PHY 184B or concurrently or PHY 294H or concurrently) RB: (MTH 133 and PHY 102) Computer methods to analyze and visualize physics problems. Tools used will include programming languages (Fortran and mathematical software (Mathematica, etc).}

205 Directed Studies
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. R: Approval of department. Guided individualized study in an area of physics.