PH010 Development of Physics Skills (0-1-0) f,w,s
May be repeated for a maximum of 3 credits. Individualized instruction in physics problem solving and general study skills from professional physics coaches. Benefits students looking for help with demanding college-level physics courses (PH201 through PH310). Graded on
pass/fail basis. Credits do not count toward graduation. Prerequisite: permission of instructor.
PH020 Team Approach to Learning Physics (0-1-0)
May be repeated for a maximum of 3 credits. Collaborative approach to the study of physics. Students meet 3 hours per week with 4 to 6 team members who are concurrently taking the same physics course in general physics (PH204 or PH205). Students will work under the direction of a professional physics coach to learn the team approach to problem solving. Benefits students looking for help with demanding courses and who would also like experience in team problem solving. Graded pass/fail. Credits do not count toward graduation. Prerequisite: permission of instructor; corequisite: PH204 or PH205.
PH130 Introductory Astronomy (3-0-0) f
PH181 Introductory Physics Laboratory I (0-0-2) f,w,s,su
PH182 Introductory Physics Laboratory II (0-0-2) f,w,s,su
PH183 Introductory Physics Laboratory III (0-0-2) f,w,s,su
PH201 Elements of Physics I (3-0-0) f,w,su
PH202 Elements of Physics II (3-0-0) w,s,su
PH203 Elements of Physics III (3-0-0) f,s,

PH204 General Physics I (2-2-0) f,w,s,su
PH205 General Physics II (2-2-0) f,w,s,su
PH206 General Physics III (2-2-0) f,w,s,su
PH251 Sophomore Journal Club (0-2-0) f
PH310 General Physics IV (2-2-0) f,s,su
PH316 Electronics for Scientists I (0-3-3) f
PH330 Introduction to Remote Sensing (0-3-0) f
PH332 Theoretical Mechanics I (0-3-0) w
PH333 Theoretical Mechanics II (0-3-0) s

PH337 Electronics for Scientists II (0-3-3) w
PH345 Thermodynamics and Statistical Mechanics (0-4-0) s
PH360 Geometrical and Physical Optics (0-3-3) s
PH401 Special Relativity Theory (0-3-0) w ('98)
PH405 Qualitative Methods in Problem Solving (0-1-0) f
PH411 Senior Laboratory/Project (0-0-6) f
PH412 Senior Laboratory/Project (0-0-6) w
PH413 Senior Laboratory/Project (0-0-6) s
PH417 Nuclear Radiation Measurements (0-2-3) f

PH418 Intermediate Optics (0-3-3) f
In-depth study of physical optics, including interference, diffraction, and polarization. Also includes the physics of color. Prerequisites: PH360, and MA310.
PH420 Quantum Mechanics I (0-3-0) f
PH421 Quantum Mechanics II (0-3-0) w
PH422 Quantum Mechanics III (0-3-0) s
PH426 Electricity and Magnetism I (0-4-0) w Intermediate study of the basic theory of electricity, indlucing a detailed study of electrostatic field theory. Prerequisites: PH205, MA310, and PH332.
PH427 Electricity and Magnetism II (0-4-0) s Continuation of PH426, including magnetostatics, Maxwell's equations, and electromagnetic wave theory. Prerequisite: PH426.
PH430 Stellar Astrophysics (0-3-0) w ('98)
PH432 Galactic Astrophysics (0-3-0) w ('99)
PH431 Nuclear Power Systems Design (0-3-0) s
PH440 Intermediate Theroetical Mechanics (0-3-0) f

amiltonian mechanics, theory of vibrations, and special relativity. Prerequisites: PH333.
H444 Introduction to Nuclear Physics (0-3-0) s
H451 Senior Physics Colloquium (0-3-0) f
H452 Senior Physics Colloquium (0-3-0) w
H453 Senior Physics Colloquium (0-3-0) s
H470 Solid-state Physics (0-3-0) w
H480 Computers in Physics – Introduction (1-0-6) f
H481 Computers in Physics – Experiment and Analysis (1-0-6) w
H482 Computers in Physis – Theory (1-0-6) s
H490 Special Problems in Physics f,w,s

Notes:

Stellar and Galactic Astrophysics were added in 1998, though reference to them in PH490 was not removed until later.

Prerequisites from other departments:

MA131 – Trigonometry

MAT111 – Technical Mathematics I (Algebra and Trigonometry)

MA151 – Calculus and Analytic Geometry II

MA152 - Calculus and Analytic Geometry III

MA250 - Calculus and Analytic Geometry IV

MA310 – Introduction to Ordinary Differential Equations

CH102 – General Chemistry II

CH313 – Physical Chemistry III

CS110 – Introduction to Programming

CS121 - Introduction to Computer Science I