PHZ: Physics (Continued) Courses

Courses

PHZ 3108L Intermediate-Level Physics Problems
1 sh (may not be repeated for credit)
Prerequisite: PHY 3106
Practicum in the art of solving problems across the physics curriculum. Intended to bridge introductory university physics to the upper-level physics core. A grade of C or better is required for all prerequisite courses.

PHZ 3151C Introduction to Scientific Computing
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND PHY 2048
Scientific computation relevant to science, mathematics, and engineering, with emphasis on the process of modeling, simulation, visualization, and evaluation.

PHZ 4113 Mathematical Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND MAC 2313*
Algebra of complex numbers, Taylor series, linear algebra, vector algebra and calculus, and curvilinear coordinates. A grade of C or better is required for prerequisite courses.

PHZ 4114 Mathematical Physics II
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302 AND PHZ 4113
Fourier series, special functions, boundary value problems, partial differential equations, series solutions, and integral transforms. A grade of C or better is required for prerequisite courses.

* This course may be taken prior to or during the same term.