

MUPF537 Ladies' Chorus  
MUPF538 Chamber Music Ensembles  
MUPF545 Sinfonietta  
MUPF546 Men's Chorus  
MUPF505 Keyboard Accompanying  
MUPF510 Collaborative Piano  
MUPF515

The BS: Biophysics program prepares the graduate for direct entry into the workforce or advanced studies in medical and bioengineering fields as well as biophysics.

The BS: Physics Education program prepares the graduate for a career in secondary teaching.

The Major in Physics Studies is an add-on degree program that complements any baccalaureate degree without incurring additional general education requirements. It strengthens and expands marketability and interdisciplinary opportunities.

A Minor in Physics complements any baccalaureate degree. It is the minimum requirement for secondary teaching certification in physics. All physics majors and minors desiring certification should consult with the School of Education throughout their program.

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See inside front cover for symbol code.

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**PHYS110**

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demonstrations—their design, preparation, and execution—with student participation. Prerequisite: Approval of the department chair.

**PHYS411, 412** **t Alt (2.5, 2.5)**

Statics, kinematics, and dynamics of systems of particles. Application of vector calculus to mechanics; Lagrangian and Hamiltonian formulations. Prerequisite: PHYS242 (recommended) or PHYS142; MATH192. Fall, Spring (even years)

**PHYS416** **t Alt (2.5)**

Modeling and describing physical phenomena of living systems, including transport and diffusion across membranes and