

# PHYSICS (PHS)

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**PHS 491 Quantum Mechanics (3)**

Prerequisite(s): PHS 221, PHS 222, PHS 301, PHS 343, and MS 344.

An extension of the investigation of quantum mechanics begun in PHS 301 to include the full mathematical development of the theory. Basic tools including linear operators and matrices will be used to explore physical systems.

**PHS 500 Physics for Teachers (3)**

Designed for teachers, this course will reinforce and extend basic concepts in physics covered in the Science Course of Study. (May be used in the general science teaching field with a major in secondary education.) May be repeated up to three times.

**PHS 501 Physics for Teachers (3)**

This course deals with basic concepts in physics for pre-service and in-service secondary education teachers. It covers contents, methods, and hand-on activities. Topics selected from electricity, magnetism, and optics.

**PHS 502 Physics for Teachers (3)**

This course deals with the basic concepts in physics for pre-service and in-service secondary education teachers. It covers contents, methods, and hands-on activities. Topics selected from modern physics, e.g., quantum physics, atomic physics, and nuclear physics.