

## PHY – Physics

### **PHY 118 Medical Imaging Science** **3-0-3**

This course is the study of the fundamental physics associated with the field of medical imaging sciences. The areas of study include concepts of radiation production as it relates to x rays and nuclear medicine studies and acoustical properties related to sonographic exams.

### **PHY 201 Physics I** **3-3-4**

This is the first in a sequence of physics courses. Topics include mechanics, wave motion, sound, heat, electromagnetism, optics, and modern physics. This course is transferable to public senior institutions as part of the South Carolina Commission on Higher Education Statewide Articulation Agreement.

### **PHY 202 Physics II** **3-3-4**

**Prerequisites:** *PHY 201*

This course covers physics topics, including mechanics, wave motion, sound, heat, electromagnetism, optics, and modern physics. This course is transferable to public senior institutions as part of the South Carolina Commission on Higher Education Statewide Articulation Agreement.

### **PHY 221 University Physics I** **3-3-4**

**Prerequisites:** ( *MAT 130 or MAT 140* )

This is the first of a sequence of courses. The course includes a calculus based treatment of the following topics: vectors, laws of motion, rotation, vibratory, and wave motion. This course is transferable to public senior institutions as part of the South Carolina Commission on Higher Education Statewide Articulation Agreement.

### **PHY 222 University Physics II** **3-3-4**

**Prerequisites:** *PHY 221*

This course is a continuation of calculus based treatment of the following topics: thermodynamics, kinetic theory of gases, electricity and magnetism, including electrostatics, dielectrics, electric circuits, magnetic fields, and induction phenomena. This course is transferable to public senior institutions as part of the South Carolina Higher Education Statewide Articulation Agreement. .