1001 Physical Science (3) Prereq.: MATH 1100 or 1200. Introductory physics for non-science majors. For a max. of 6 hrs. of credit when topics vary. May be taken twice when topics vary. Credit will not be given for this course and PHYS 2001, 2002, or 2101. 3 hrs. lab. Credit will not be given for both this course and PHYS 2102, 2103, or 2108. Laboratory to accompany PHYS 2001 or 2102. 2108. Laboratory to accompany PHYS 2001 or 2102. 2109 General Physics Laboratory (1) Prereq.: PHYS 2108 and credit or registration in PHYS 2002 or 2102. 3 hrs. lab. Credit will not be given for both this course and PHYS 2102. Electromagnetism, magnetic, physical optics, and topics from modern physics. 2110 Introductory Physics Laboratory (1) Prereq.: credit or registration in PHYS 2001 or 2102. 3 hrs. lab. Credit will not be given for both this course and PHYS 2102. 2108. Laboratory to accompany PHYS 2001 or 2102. 2109 General Physics Laboratory (1) Prereq.: PHYS 2108 and credit or registration in PHYS 2002 or 2102. 3 hrs. lab. Credit will not be given for both this course and PHYS 2102. 2109 General Physics Laboratory (1) Prereq.: PHYS 2108 and credit or registration in PHYS 2002 or 2102. 3 hrs. lab. Credit will not be given for both this course and PHYS 2102. 2111 Elementary Mathematical Physics (3) Prereq.: PHYS 2102 or and credit in MATH 1552. Mathe- matical methods of physics, vector calculus, complex variables, Fourier series, matrices and determinants, differential equations with application to selected problems in physics. 2203 Introductory Modern Physics (3) Prereq.: PHYS 2102 or 2102. Elementary modern physics; special relativity, waveparticle duality, quantum mechanics, hydrogen atom, many-electron atoms, nuclear structure, elementary particles, solid state, astrophysics, and cosmology. 2207 Introductory Modern Physics Laboratory (1) F Coreq.: PHYS 2203. Required for physics majors. Laboratory to accompany PHYS 2203.
2221 Introduction to Mechanics (3) Prereq.: PHYS 1202 or 2102 and MATH 2057. Basic concepts of mechanics with emphasis on mathematical techniques. Provides appreciation of physics, does not develop technical skills. 2411 Computational Science I (3) Prereq.: PHYS 2221 or PHYS 2451 and MATH 2055 or 2090. Elementary and intermediate level technical computing with emphasis on use of scientific computing software, including numerical methods, visualization, and simulation. 2351 Electricity and Magnetism (3) Prereq.: PHYS 2221 or PHYS 2451 and credit or registration in MATH 2055 or 2090. Electric and magnetic fields, and electromagnetic fields in vacuo and in dielectric and magnetic media.

2401 Introduction to Concepts in Physics (3) V Prereq.: MATH 1021 or an ACT math score of at least 25. Primarily for students in liberal arts and education. Historical evolution and underlying principles of physics; provides appreciation of physics; does not develop technical skills. 2411 Computational Science I (3) Prereq.: PHYS 2221 or PHYS 2451 and MATH 2055 or 2090. Elementary and intermediate level technical computing with emphasis on use of scientific computing software, including numerical methods, visualization, and simulation. 2351 Electricity and Magnetism (3) Prereq.: PHYS 2221 or PHYS 2451 and credit or registration in MATH 2055 or 2090. Electric and magnetic fields, and electromagnetic fields in vacuo and in dielectric and magnetic media.

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