

COURSE DESCRIPTIONS

PHYSICS

PHYS 1401 COLLEGE PHYSICS I

Format: 3 lecture / 3 lab (4 credit hours)

This is a 4 semester hour course which is an algebra/trigonometry-level approach toward physics for students preparing for medical, dental, or other science-related fields. Topics include fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; with emphasis on problem solving. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; emphasis will be on problem solving.

Prerequisite: MATH 1314 College Algebra and MATH 1316 Plane Trigonometry or MATH 2312 or MATH 2412 Pre-Calculus

Credits: 4

Distribution: PHYS

Offered: Spring Only

Course Fee: Lab fee= \$20

PHYS 1402 COLLEGE PHYSICS II

Format: 3 lecture / 3 lab (4 credit hours)

This four semester hour course is a continuation of PHYS 1401. Topics include the study of the Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving.

Prerequisite: PHYS 1401 College Physics I.

Credits: 4

Distribution: PHYS

Offered: Fall Only

Course Fee: Lab fee= \$20

PHYS 1403 STARS & GALAXIES

Format: 3 lecture / 3 lab (4 credit hours)

Study of stars galaxies and the universe outside our solar system. (Formerly: PHYS 1412)

Credits: 4

Distribution: PHYS

Offered: Spring Only

Course Fee: Lab fee= \$20; Internet course fee (if applicable): \$43

PHYS 1404 THE SOLAR SYSTEM

Format: 3 lecture / 3 lab (4 credit hours)

Study of the sun and its solar system including its origin. (Formerly: PHYS 1411)

Credits: 4

Distribution: PHYS

Course Fee: Lab fee= \$20; Internet course fee (if applicable): \$43

PHYS 1415 PHYSICAL SCIENCE I

Format: 3 lecture / 3 lab (4 credit hours)

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology. May or may not include a laboratory.

Credits: 4

Distribution: PHYS

Course Fee: Lab fee= \$20; Internet course fee (if applicable): \$43

PHYS 1417 PHYSICAL SCIENCE II

Format: 3 lecture / 3 lab (4 credit hours)

This course, designed for non-science majors, is a survey of topics in physics, chemistry, geology, astronomy, and meteorology.

Credits: 4

Distribution: PHYS

Course Fee: Lab fee= \$20

PHYS 2425 UNIVERSITY PHYSICS I

Format: 3 lecture / 3 lab (4 credit hours)

Fundamental principles of physics, using calculus, for science, computer science, and engineering majors; the principles and applications of classical mechanics, including harmonic motion, physical systems and thermodynamics; and emphasis on problem solving. Basic laboratory experiments supporting theoretical principles presented in PHYS 2325 involving the principles and applications of classical mechanics, including harmonic motion and physical systems; experimental design, data collection and analysis, and preparation of laboratory reports.

Prerequisite: MATH 2413—Calculus I

Credits: 4

Distribution: PHYS

Course Fee: Lab fee= \$20

PHYS 2426 UNIVERSITY PHYSICS II

Format: 3 lecture / 3 lab (4 credit hours)

Principles of physics for science, computer science, and engineering majors, using calculus, involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics. Laboratory experiments supporting theoretical principles presented in PHYS 2326 involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics; experimental design, data collection and analysis, and preparation of laboratory reports.

Prerequisites: PHYS 2425 University Physics I, MATH 2414 Calculus II

Credits: 4

Distribution: PHYS

Offered: Fall Only

Course Fee: Lab fee= \$20

Navarro College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate and baccalaureate degrees. Navarro College also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Navarro College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, by calling (404) 679-4500, or by using information available on [SACSCOC's website](#).