


PHYSICAL SCIENCE (PS)

 - General Education Course

PS 101 Introductory Astronomy (CT) 4 Credit hours

A survey of the past, present, and future of the Universe, from our solar system, to the nearby stars, our Milky Way galaxy and far beyond.

Attributes: Critical Thinking, Core II Natural Sciences

Grade Mode: Normal Grading Mode

PS 109 General Physical Science 3 Credit hours

The course covers the basic principles and concepts of the universe including energy, and its various forms. Force, motion, electricity, magnetism, the wave theory of light and sound and astronomy are also studied.

Pre-req: MTH 121 or MTH 123 or MTH 127 or MTH 130 or MTH 130E or MTH 229 or MTH 229H or MTH 203 or MTH 121B or MTH 130H.

Co-req: PS 109L

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

PS 109L Gen Physical Science Lab 1 Credit hour

Selected experiments relating to measurement, force, work, energy, astronomy, light and electricity.

Co-req: PS 109

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

PS 110 General Physical Science 3 Credit hours

The course covers the basic principles and concepts of chemistry, geology, and meteorology. The crust of the earth, minerals, rocks, chemical reactions are studied.

Pre-req: MTH 121 or MTH 121H or MTH 123 or MTH 123E or MTH 127 or MTH 130 or MTH 130H or MTH 130E or MTH 140 or MTH 203 or MTH 220 or MTH 225 or MTH 229 or MTH 229H or MTH 121B.

Co-req: PS 110L

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

PS 110L Gen Physical Science Lab 1 Credit hour

Selected experiments relating to chemistry, geology, and meteorology.

Co-req: PS 110

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

PS 111 Life in the Universe 4 Credit hours

An investigation of the prospects for the existence of life elsewhere in our solar system, galaxy, and the wider Universe. Includes an integrated 2 hour lab.

Attributes: Core II Natural Sciences

Grade Mode: Normal Grading Mode

PS 120 PS for Teachers: Planets 3 Credit hours

A conceptual study of the Earth's relation to the other members of the solar system and its place in the Universe. (Part of a 3 course sequence for K-9 education majors).

Grade Mode: Normal Grading Mode

PS 121 PS for Teachers: Chemistry 3 Credit hours

PS 121 is a part of a 3 course sequence of Physical Science for K-9 Education majors. Includes 2-hr, 1 credit lab.

Pre-req: MTH 127 or MTH 130 or MTH 132 or MTH 140 or MTH 229.

Grade Mode: Normal Grading Mode

PS 122 PS for Teachers: Physics 3 Credit hours

PS 122 is part of a 3 course sequence of Physical Science for K-9 Education majors. Includes 2-hr, 1 credit lab.

Pre-req: MTH 127 or MTH 130 or MTH 132 or MTH 140 or MTH 229.

Grade Mode: Normal Grading Mode

PS 280 Special Topics 1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 281 Special Topics 1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 282 Special Topics 1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 283 Special Topics 1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 325 Dev Scientific Thought 4 Credit hours

An introduction to the history and nature of science emphasizing the logic of scientific reasoning and progress with social and historical influences. Includes lab. (PR: 12 hrs of Science)

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 400 Astronomy 3 Credit hours

A study of the stars, planets, and galaxies, planetary motion, cosmology, cosmography. Designed to assist teachers and others to develop an interest in astronomy.

Pre-req: PS 109 or PHY 201 or PHY 211 and PS 400L (may be taken concurrently).

Concurrent PR: PS 400L

Co-req: PS 400L

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 400L Astronomy Laboratory 1 Credit hour

A computational and observational laboratory. Fundamental observations in astronomy and their interpretation through physical laws. Quantitative discussion of orbital motion, time, telescopes, solar system, stars, and galaxies.

Co-req: PS 400

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 410 Remote Sensing w Applications 4 Credit hours

A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial analysis computer software systems with earth resource applications. (PR: PHY 203 and PHY 204)

Pre-req: PHY 203 and PHY 204.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 411 Image Processing/Modeling 4 Credit hours

A study of image processing/geographic information and spatial analysis hardware/software systems, concurrent and parallel image processing modeling scenarios utilizing geobiophysical data for computer simulation modeling and practicum.

Pre-req: PS 410.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 470 Practicum 4 Credit hours

Problem solving, geobiophysical modeling, and proposal development techniques in the physical sciences.

Pre-req: PS 411 or PHY 411.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 480 Special Topics 1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 481 Special Topics 1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 482 Special Topics 1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 483 Special Topics 1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 485 Independent Study 1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 486 Independent Study 1-4 Credit hours

Attributes: No Textbook Required, Natural Sciences

Grade Mode: Normal Grading Mode

PS 487 Independent Study 1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PS 488 Independent Study 1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode