

Science

Integrated Physics and Chemistry PSP

0107

This is an integrated approach to the principles of basic chemistry and physics through lecture and lab. The course involves topics such as the structure and properties of matter, periodic law, atomic bonding, and chemical reactions. It also covers concepts in physics, such as the nature and cause of motion and composition of forces.

CREDIT: 1

TYPE: Standard

GRADE: 9

Biology PSP

0101

The content topics covered will include the scientific method, the origin of life, the chemistry of life, cells, genetics, animals, plants, and ecology. The instructor will implement various teaching strategies such as: cooperative learning, integrated instruction, projects, and investigations.

CREDIT: 1

TYPE: Standard

GRADE: 9-10

PREREQUISITE: 0104 - Algebra 1

Biology CP

1105

This course is an in-depth study of Biology and designed for the advanced science student.

CREDIT: 1

TYPE: Honors

GRADE: 9-10

PREREQUISITE: 0104 - Algebra 1

Chemistry PSP

0111

Chemistry is a study of the nature of matter and change in its composition including structural study. The course uses a combination of lecture and laboratory work. It involves a large amount of mathematics.

CREDIT: 1

TYPE: Standard

GRADE: 10-11

PREREQUISITE: 0101 - Biology PSP **or** 1105 - Biology CP

Chemistry CP

2111

Chemistry is a study of the nature of matter and changes in its composition including structural study. The course uses a combination of lecture and laboratory work. It involves a large amount of mathematics. This is recommended for the college bound student.

CREDIT: 1

TYPE: Honors

GRADE: 10-11

PREREQUISITE: 0101 - Biology PSP **or** 1105 - Biology CP

Physics PSP

2105

Physics includes the lecture and laboratory study of force and motion, thermal, energy, wave phenomena, kinetic theory, light and optics, and electricity and magnetism. Many labs will involve the use of CBL's and computer graphical analysis.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: Successful completion of Chemistry and Algebra 2

Physics CP

0105

Honors Physics includes the lecture and laboratory study of force and motion, thermal, energy, wave phenomena, kinetic theory, light and optics, and electricity and magnetism. Many labs will involve the use of CBL's and computer graphical analysis. This course is recommended for the college bound student.

CREDIT: 1

TYPE: Honors

GRADE: 11-12

PREREQUISITE: Successful completion of Chemistry and Algebra 2

Science

Forensic Science PSP

0331

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science. This course satisfies a high school science graduation requirement.

COURSE NOTE: Recommended Prerequisite: Any Law & Public Safety course.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: Biology and Chemistry

Anatomy and Physiology CP

1101

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. Anatomy and Physiology is recommended for the college bound medical related degree student.

CREDIT: 1

TYPE: Honors

GRADE: 11-12

PREREQUISITE: Biology and Chemistry

Astronomy PSP

2101

In Astronomy, students conduct laboratory and field investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, and reasons for seasons, planets, the sun, stars, galaxies, cosmology, and space exploration.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

Advanced Plant and Soil Science

3101

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

CREDIT: 1

TYPE: Honors

GRADE: 11-12

PREREQUISITE: 2502 - Horticultural Science

Science

Advanced Animal Science

4512

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: Veterinary Medical Applications

Biology DC

9100

This is a dual credit course for Biology offered through Paris Junior College to satisfy a science credit for non-stem majors. BIOL 1408 & 1409. This course is taken at the PJC-SS Campus and has a fee that must be paid to PJC.

COURSE NOTE: Must meet PJC requirements for enrollment.

CREDIT: 1 (8 college hours)

TYPE: Honors

GRADE: 11-12

Anatomy & Physiology DC

9200

This is a dual credit course for Anatomy and Physiology offered through Paris Junior College to satisfy a science credit for Allied Health Majors: BIOL 2401 & 2402. This course is taken at the PJC-SS Campus and has a fee that must be paid to PJC.

COURSE NOTE: Must meet PJC requirements for enrollment.

CREDIT: 1 (8 college hours)

TYPE: Honors

GRADE: 11-12