PHYSICAL SCIENCE (PSCI)

PSCI-1010 Astronomy [PSCI-1010 is now listed as PHYS-1010; students must register under PHYS-1010]
3 Credits

This course is cross-listed as PHYS-1010. Credit can only be earned once for either course. Survey of astronomy. History of astronomy, planets, asteroids and comets, the sun, stars, galaxies, and cosmology. Contemporary issues and developments in astronomy and space science. Intended for non-science majors. To fulfill laboratory science requirements, students should enroll in related laboratory course.

Lecture: 3 hours
Prerequisite(s): ENG-0980 Language Fundamentals I or appropriate score on English Placement Test.
OAN Approved: TMNS

PSCI-101L Astronomy Laboratory [PSCI-101L is now listed as PHYS-101L; students must register under PHYS-101L]
1 Credit

This course is cross-listed as PHYS-101L. Credit can only be earned once for either course. Intended for non-science majors. Exercises on measurements, optics, telescopes, the sun, constellations, and other related astronomy topics. Laboratory activities complement and enrich related lecture course.

Laboratory: 3 hours
Prerequisite(s): PSCI-1010 Astronomy or concurrent enrollment.
OAN Approved: TMNS.

PSCI-1020 Everyday Chemistry [PSCI-1020 is now listed as CHEM-1000; students must register under CHEM-1000]
3 Credits

Survey of chemistry as related to environment, health and nutrition, and applications that affect quality of life. Basic concepts and applications of chemistry, consumer chemistry, acids and bases, medicines and drugs, pollution and conservation. Intended for non-science majors. To fulfill laboratory science requirement, student should enroll in related laboratory course.

Lecture: 3 hours
Prerequisite(s): ENG-0980 Language Fundamentals I or appropriate score on English Placement Test; or departmental approval.
OAN Approved: TMNS.

PSCI-102L Everyday Chemistry Lab [PSCI-102L now listed as CHEM-1000L; students must register under CHEM-1000L]
1 Credit

Intended for non-science majors. Exercises on measurements, separation and synthesis methods, reaction rates, water analysis, household chemistry, forensic and environmental issues, and other related chemistry topics. Laboratory activities complement and enrich related lecture course.

Laboratory: 3 hours
Prerequisite(s): CHEM-1000 Everyday Chemistry or concurrent enrollment; or PSCI-1020 Chemistry or concurrent enrollment.
OAN Approved: TMNS.

PSCI-1030 Earth [PSCI-1030 is now listed as ESCI-1030; students must register under ESCI-1030]
3 Credits

This course is cross-listed as ESCI-1030. Credit can only be earned once for either course. Survey of geology of Earth and its impact on the environment. Earth's structure and composition, earthquakes, plate tectonics, hydrologic cycle, weather, resources and energy alternatives, and current related issues. Intended for non-science majors. To fulfill laboratory science requirements, students should enroll in related laboratory course.

Lecture: 3 hours
Prerequisite(s): ENG-0980 Language Fundamentals I or appropriate score on English Placement Test.
OAN Approved: TMNS

PSCI-103L Earth Laboratory [PSCI-103L is now listed as ESCI-103L; students must register under ESCI-103L]
1 Credit

This course is cross-listed as ESCI-103L. Credit can only be earned once for either course. Intended for non-science majors. Exercises on rocks and minerals, soils, weather, plate tectonics, energy and may include other related earth science activities. Laboratory activities complement and enrich related lecture course.

Laboratory: 3 hours
Prerequisite(s): PSCI-1030 Earth or concurrent enrollment.
OAN Approved: TMNS.

PSCI-179H Honors Contract: Physical Science
1 Credit

Honors contract complements and exceeds the requirements and expected outcomes for an existing PSCI-1000 level course through formulation of a contract with a faculty mentor. This independent study at the honors level may also be taken with non-honors course. When taken with a non-honors course, the Honors contract adds an honors experience to that course. In conjunction with a faculty member, student will formulate a contract, which upon completion will result in distinctive scholarship. The student is required to meet on a regularly scheduled basis with the instructor for mentor-student tutorial sessions. A maximum of six Honors Contracts (six credit hours) may be taken at the college (includes 179H and 279H).

Lecture: 1 hours
Prerequisite(s): Must be taken concurrently with a 1000-level course whose instructor approved the contract.

PSCI-1820 Independent Study/Research in Physical Science
1-3 Credits

Directed individual study. Study/research title and specific content arranged between instructor and student. May be repeated for a maximum of six credits of different topics.

Lecture: 1-3 hours
Prerequisite(s): Departmental approval, and instructor approval, and ENG-0990 Language Fundamentals II, or appropriate score on English Placement Test.
PSCI-182H Honors Independent Study/Research in Physical Science
1-3 Credits
Honors-level directed individual study. Must meet criteria set forth in the Honors Course Checklist used to approve regular honors courses. Study/research title and specific content arranged between instructor and student. May be repeated for a maximum of six credits of different topics.
Lecture: 1-3 hours
Prerequisite(s): Departmental approval and instructor approval, and ENG-0990 Language Fundamentals II or appropriate score on English Placement Test, and must have earned an A or B in at least 3 honors courses.

PSCI-2820 Advanced Independent Study/Research in Physical Science
1-3 Credits
Directed individual advanced study. Study/research title and specific content arranged between instructor and student. May be repeated for a maximum of six credits of different topics.
Lecture: 1-3 hours
Prerequisite(s): Departmental approval, and instructor approval, and ENG-0990 Language Fundamentals II, or appropriate score on English Placement Test.

PSCI-282H Advanced Honors Independent Study/Research in Physical Science
1-3 Credits
Advanced Honors-level directed individual study. Must meet criteria set forth in the Honors Course Checklist used to approve regular honors courses. Study/research title and specific content arranged between instructor and student. May be repeated for a maximum of six credits of different topics.
Lecture: 1-3 hours
Prerequisite(s): Departmental approval and instructor approval, and ENG-0990 Language Fundamentals II or appropriate score on English Placement Test, and must have earned an A or B in at least 3 honors courses.