

**CATALOG YEAR 2013-2014**COLLEGE/SCHOOL/SECTION: COASCourse: Add: Delete: (check all that apply) Change: Number X Title SCH X Description X**BIOL ~~1406~~ 1306 (BIOL 1306) Principles of Biology I. ~~Four~~ Three semester credit hours.**

A study of the basic principles of Biology. Topics will include biochemistry, cell structure and function, photosynthesis and respiration, DNA structure and function, mitosis, meiosis, and Mendelian genetics. Required for all biology majors. Concurrent enrollment in CHEM ~~1411~~ 1311/1111 is strongly recommended; **concurrent enrollment in BIOL 1106 is required.** ~~Laboratory/Lecture.~~ Fulfills the laboratory Science core requirement. May be taken by non-science majors with permission of instructor.

BIOL 1106 (BIOL 1106) Principles of Biology I Laboratory. One semester credit hour.

Laboratory course to accompany BIOL 1306. Practical exercises reinforce BIOL 1306 lecture material. Topics will include include biochemistry, cell structure and function, photosynthesis and respiration, DNA structure and function, mitosis, meiosis, and Mendelian genetics. Must be taken concurrently with BIOL 1306. Lab fee: \$27.25.

BIOL ~~1411~~ 1311(BIOL 1311) Principles of Biology II. ~~Four~~ Three semester credit hours.

This course is designed to give the students a broad introduction to botany. Emphasis will be on characteristics of the plant kingdom, but the relevant features of algae and fungi will also be discussed. General topics will include plant structure, physiology and development, evolution and ecology. ~~Lecture/Laboratory.~~ **Concurrent enrollment in BIOL 1111 is required** May be taken by non-science majors with permission of instructor. ~~Lab fee: \$27.25~~

BIOL 1111 (BIOL 1111) Principles of Biology II Laboratory. One semester credit hour.

Laboratory course to accompany BIOL 1311. Practical exercises reinforce BIOL 1311 lecture material. Emphasis will be on characteristics of the plant kingdom, but the relevant features of algae and fungi will also be discussed. General topics will include plant structure, physiology and development, evolution and ecology. Must be taken concurrently with BIOL 1311. Lab fee: \$27.25

BIOL ~~1470~~ 1371 Human Biology. ~~Four~~ Three semester credit hours.

A survey of the basic anatomy and functioning of systems of the human body, including musculoskeletal, reproductive, circulatory, respiratory, immune, nervous, endocrine, urinary, and digestive systems. Not for students majoring or minoring in biology. **Must be taken concurrently with BIOL ~~1470~~.** Fulfills the laboratory science core curriculum requirement. ~~Lab fee: \$27.25.~~ 1171

BIOL 1171 Human Biology Laboratory. One semester credit hour

Laboratory course to accompany BIOL ~~1370~~. Practical exercises reinforce BIOL ~~1370~~ lecture material. Topics include the basic anatomy and functioning of systems of the human body, including musculoskeletal, reproductive, circulatory, respiratory, immune, nervous, endocrine, urinary, and digestive systems. Not for students majoring or minoring in biology. Fulfills the laboratory science core curriculum requirement. Must be taken concurrently with BIOL ~~1370~~. Lab fee: \$27.25 All numbers should be 1371

BIOL ~~2401~~ 2301 (BIOL 2301) Anatomy & Physiology I. ~~Four~~ Three semester credit hours

A study of the structure and function of the human body including cells, tissues, and organs of the following systems: integumentary, skeletal, muscular, nervous system and special senses. Prerequisite: Consult your departmental advisor or obtain instructor's permission. **Must be taken concurrently with BIOL 2101.** Carries no credit for biology majors. ~~Lecture/Laboratory.~~ Lab fee: \$27.25.

BIOL 2101 (BIOL 2101) Anatomy & Physiology I Laboratory. One semester credit hour

Laboratory course to accompany BIOL 2301. Practical exercises reinforce BIOL 2301 lecture material. Topics

include of the structure and function of the human body including cells, tissues, and organs of the following systems: integumentary, skeletal, muscular, nervous system and special senses Not for students majoring or minoring in biology. Fulfills the laboratory science core curriculum requirement. Carries no credit for biology majors. Must be taken concurrently with BIOL 2301. Lab fee: \$27.25

~~BIOL 2402~~ **2302** (BIOL 2302) Anatomy & Physiology II. ~~Four~~ **Three** semester hours. (SP)

A continuation of BIOL 2301 that includes endocrine, circulatory, respiratory, digestive, urinary, and reproductive systems. Other topics include metabolism, acid-base balance, development, and heredity. **Must be taken concurrently with BIOL 2102.** Prerequisite: BIOL ~~2401~~ **2301**. Carries no credit for biology majors.

Lecture/Laboratory. Lab fee: \$27.25.

BIOL 2102 (BIOL 2102)Anatomy & Physiology II Laboratory. One semester hour.

Laboratory course to accompany BIOL 2302. Practical exercises reinforce BIOL 2302 lecture material. Topics include endocrine, circulatory, respiratory, digestive, urinary, and reproductive systems. Other topics include metabolism, acid-base balance, development, and heredity. Carries no credit for biology majors. Must be taken concurrently with BIOL 2302. Lab fee: \$27.25

~~CHEM 1411~~ **1311** (CHEM 1311) General Chemistry I. ~~Four~~ **Three** semester credit hours

Covers the basic principles of nomenclature, atomic structure, bonding, thermodynamics, chemical reaction, and stoichiometry. The first half of a two-semester course. **Must be taken concurrently with CHEM 1111.** ~~Three hours of laboratory per week.~~ Lab fee: \$27.25.

CHEM 1111 (CHEM 1311) General Chemistry I Laboratory. One semester hour.

Laboratory course to accompany CHEM 1311. Practical exercises reinforce CHEM 1311. Topics include the basic principles of nomenclature, atomic structure, bonding, thermodynamics, chemical reaction, and stoichiometry. **Must be taken concurrently with CHEM 1311.** Lab fee: \$27.25.

~~EPSC 2401~~ **2301** (GEOL 1347) Atmospheric Science. ~~Four~~ **Three** semester credit hours

Structure, energy, and motions of the atmosphere; climate; fronts and cyclones; atmospheric stability; clouds and precipitation; severe storms. ~~Includes three hours of laboratory per week.~~ Lab fee: \$27.25.

EPSC 2101 (GEOL 1147) Atmospheric Science Laboratory. One semester hour.

Laboratory course to accompany EPSC 2301. Practical exercises reinforce EPSC 2301 lecture material. Topics will include structure, energy, and motions of the atmosphere; climate; fronts and cyclones; atmospheric stability; clouds and precipitation; severe storms. **Must be taken concurrently with EPSC 2301.** Lab fee: \$27.25.

Justification: These changes are offered to bring science courses involving labs into alignment with the Texas Common Course Numbering System; also to make labs more manageable in relation to the new Core Curriculum, effective 2014.

Approvals:

Signature

Date

Chair

Department Curriculum Committee

Chair

Department

Chair

College Curriculum Committee

Dean
