



## Wichita East High School IB Program

### Exam Group Four Overview: Experimental Sciences (PIB classes)

#### EHS PIB Biology

**Instructors: Kyle Broadfoot, Randy McMinn, Susan Richardson**

EHS Pre-IB Biology is comparable to an Honors Biology 1 course. Students receive an introduction to cells and cell chemistry, energy relationships, genetics, taxonomy, plant structure, comparative zoology, ecology, disease, and human reproduction. Students learn the scientific method and methods for writing lab reports.

**Required course for all freshmen in the program.**

#### EHS PIB Chemistry

**Instructor: Yun-Hwa Mau**

EHS Pre-IB Chemistry is comparable to an Honors Chemistry 1 course. Students learn the basics of scientific investigation as it pertains to chemistry and will be in the laboratory once every week. Topics introduced in EHS Pre-IB Chemistry may include atomic theory, bonding, states of matter, stoichiometry, acids and bases, and organic chemistry. The course introduces students to methods of applying and using scientific facts and concepts. This course is designed to prepare students to be successful in IB Chemistry SL.

**Prerequisite: Algebra 1**

#### EHS PIB Physics

**Instructor: Joe Hutchinson**

Physics is the most basic of the sciences. EHS Pre-IB Physics studies the nature of motion, forces, energy, matter, heat, sound, light, and the inside of atoms. The course treats physics conceptually as well as mathematically; however, a strong math background is required, particularly for students going on to SL and HL Physics. The class is primarily hands on with over thirty labs conducted through the year. One of the most popular lab projects involves the designing of a non-fossil fuel powered electric generator. This course is comparable to an Honors Physics 1 course.

**Prerequisite: Algebra 1**