

## **Physics**

**Prerequisite:** Earth Science and Chemistry

**Credits per Semester:** 1

### **Course Description:**

Physics is often referred to as the “fundamental science.” It is considered by many to be the most practical course in the high school curriculum. The course will cover these topics: motion in one and two dimensions, Newton’s Laws, circular motion, work and energy, momentum, waves, optics, magnetism, electrical fields, electrical circuits.

You will need some mathematical skills and feel comfortable using a calculator and a computer in this class. The textbook for this course is, “Exploring Creation with Physics” by Dr. Jay Wile. Lab experiments will be directed to ordinary things. Hopefully, after completing this course, you will have a better understanding of this great world in which we live.

Teacher—Mr. Oliver (Bud) Eason    [bjason@cfu.net](mailto:bjason@cfu.net) or 266-1689

## **Astronomy**

**Prerequisite:** Earth Science, Biology

**Credits per Semester:** 1

**Course Description:** Astronomy is one subject you cannot get your hands on to examine. There is a lot to learn about the earth as the third planet before we go into studying the sky. We hope to have an opportunity to view through a telescope or visit a planetarium. One of the texts for this course is, “Universe By Design”.

The course will cover these topics: the sun’s path, seasons, the sun’s altitude, latitude and longitude, the moon’s path, tides, eclipses of the sun and moon, calendars, planets, stars and constellations, star charts, and NASA—space travel. After taking the course, you will understand how vast the universe is.

Teacher – Mr. Oliver (Bud) Eason    [bjason@cfu.net](mailto:bjason@cfu.net) or at 266-1689.

**Teacher Bio:** Mr. Oliver (Bud) Eason      [bjason@cfu.net](mailto:bjason@cfu.net) or 266-1689

Mr. Eason is married and lives in Cedar Falls. He was a long-time teacher at Cedar Falls High School.

He has a B.A. and M.A. from UNI in math and physics and has a chemistry minor. He's taught for two years at Valley Lutheran High School, and he has taught physics at UNI for four summers and he's taught math at UNI two summers. He's taught classes at Hawkeye CC in astronomy and photography.

He's been the recipient of Westinghouse Fellowships, Shell Oil Merit Fellowships, and prestigious National Science Foundation Fellowships at MIT, Stanford University, University of Chicago, U of Minnesota, Dartmouth, Wisconsin, and Rochester (NY). For four summers he participated in "Project Physics" at Harvard University.

Mr. Eason is a member of American Baptist Church.