

Chemistry

Prerequisites: Algebra I

Credits per Semester: 1

Chemistry is a two-semester, laboratory-oriented science course which focuses on living and non-living things. Thus, chemistry is divided into organic (living things) and inorganic (non-living things). This course will focus primarily on inorganic chemistry, including topics such as these: energy, heat and temperature, atoms and molecules, atomic structures, molecular structures, acid/base chemistry, solutions and gases, thermodynamics, kinetics, chemical equilibrium, qualitative analysis, and the fun of learning the secrets of atomic energy, the ozone layer, batteries, etc.

The textbook for this course is “Exploring Creation with Chemistry” by Dr. Jay Wile. The course theme is, “Chemistry is thinking God’s thoughts after Him,” acknowledging that God is the one who has created everything and He has given us the privilege of exploring and learning how He has put His creation together. This course emphasizes laboratory work in order to prepare students for college and for further scientific study. In addition to laboratory write-ups, assessment will be based on daily work, projects and presentations, quizzes and exams.

Teacher—Rev. Dr. Duane Lindberg

Dr. Lindberg was raised on a farm in northwestern Minnesota and now lives in Waterloo. He and his wife E. Mardell Lindberg have five children and are blessed with eleven grandchildren. Six grandchildren are home schooled, and two attend Immanuel Lutheran School and are enrolled as “Future Crusaders” at Valley Lutheran.

Pastor Lindberg is an ordained minister and has served congregations in Iowa for the past 39 years. Prior to his retirement, he was senior pastor of Ascension Lutheran Church, Waterloo. He was instrumental in the formation of a strongly Biblical national Lutheran body, The AALC. Also, Pastor Lindberg was a leader in the formation of the Ascension Lutheran Church and of the Valley Lutheran Middle and High School.

He holds a B.S. in Chemistry from the U. of N. Dakota, an M.A. in Theology from Luther Seminary, MA and PhD in American Studies from the U. of Minnesota. He has also done graduate work in chemistry at the U. of Wisconsin.

Dr. Lindberg worked as a research chemist for DuPont Co., Wilmington, Delaware. He served as Assistant Operations Officer for the Army Chemical Corps School, Fort McClelland, Alabama, and has been employed as an industrial chemist.

He was a teaching assistant in chemistry at the U. of Wisconsin, has taught at both the high school and college levels and at the US Army Chemical Warfare School. Recently, he has taught three years of high school chemistry at Valley Lutheran.

Dr. Lindberg has taught as a “home school grandpa” for the past eight years. He is currently teaching High School Chemistry in the Valley Lutheran Home School extension Program and has just completed an Introduction to Chemistry unit for Valley Lutheran Middle School students.

Dr. Lindberg is a member of Ascension Lutheran Church.

Contact him at Valley Lutheran at 266-4565 or at home 234-4987 or by e-mail at aalclindy@aol.com.