

Introduction to Technology

TECH003256

Credits: 0.5 units / 5 hours

Course Description

Technology pervades nearly every aspect of our lives and includes any use of human knowledge to extend our abilities, solve problems, meet needs, or make things easier or more efficient. This course provides an introduction to the history and nature of six general types of technology. Through it students will explore how technology works, including the design process, problem solving, outcomes, and applications. Students will investigate how technology is changing the fields of communication, biotechnology, manufacturing, construction, transportation, and energy and power. They will also explore related careers that are part of these fields.

Course Objectives

The objectives are listed individually in each lesson, but the ultimate goal is that, by the end of the course, you will know and use these facts, concepts, principles, theories, and models to gain a better grasp on the following and be able to:

1. Define technology and become familiar with the six general types of technology.
2. Relate each technology type to your life and career interests.
3. Understand technology systems and their applications.
4. Describe the design process.
5. Connect technology with traditional academic subjects.
6. For each technology type, describe inputs, processes, outputs, and feedback.
7. For each technology type, describe positive and negative outcomes.
8. For each technology type, describe applications.

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Required Textbook and Materials

(available through Follett virtual bookstore at <http://highschool.nebraska.bkstr.com>)

Textbook: *Introduction to Technology* (ISBN: 9780078797859)