

Rockcastle Adult Education
Syllabus
(GED Science)
Class time: (Tuesdays 5:30 – 7:00)
Fall 2010 & Spring 2011

INSTRUCTOR: J.D. Bussell
OFFICE: 36 Castle Village Drive
Brodhead, KY 40409
PHONE: 606-256-0218
CONTACT HOURS: 5:30 – 7:00 PM
PREREQUISITES: NONE
TEXTBOOK: NONE

COURSE DESCRIPTION:

(GED Science is a course that includes life sciences such as biology and physical sciences such as physics, chemistry, and earth science. This course teaches you to apply what you have learned in the content matter of the course to everyday situations. You will learn to think through situations and apply what you have learned to reach sound decisions. You will also learn the basics of interpretation of illustrations. Upon satisfactory completion of this section, you should be able to successfully read and understand high school graduate level material in both the life sciences and the physical sciences. You should be able to pass the post-test and successfully complete the Science portion of the GED.)

COURSE OBJECTIVES:

The class is designed to examine abilities to understand and interpret science information. During the science portion of the GED, there are 80 minutes allotted to answer 50 questions that are based on science text or graphics such as maps, charts, graphs, or diagrams. The questions are based on materials from the following content areas:

1. Life Science
2. Earth and Space Science
3. Physical Science
4. Science as Inquiry
5. Science and Technology
6. Unifying Concepts and Processes
7. Science in Personal and Social Perspectives
8. History and Nature of Science

CLASS MATERIALS:

1. Videotape, VCR, TV (all provided) by workplace, classroom, or at the adult education lab.
2. Student workbook (provided).
3. Calculator (provided).
4. Supplemental learning aids such as Skills books (provided).

EVALUATION PROCESS:

1. Official GED practice test.
2. GED Science Pre-Test
3. GED Science Post-Test
4. Official GED test.
5. TABE 7/8, 9/10 used for post-test.

CLASS METHOD:

GED Science will follow the procedure of going over homework and practice work, followed by discussion and/or presentation of new topics. Individualized instruction or small group presentations will be used based on the needs of the students.

ATTENDANCE:

Attendance is very important. In order for the student to adequately prepare for the GED, they must attend class one specific day a week (1 ½-2 hours) for a minimum of five (6) weeks to up to fifteen (15) weeks.

GRADING POLICY:

Grading is normally pass/fail. In the case of GED one either passes and receives the GED or returns to class and prepares for a re-take.

SCHOOL CLOSURES:

School closures for holidays will be posted and students will receive a copy of the holiday schedule. Listen to local radio stations for news concerning closures due to weather.

CLASS OUTLINE:

Lesson 1: Beginning: Introduction to the program and overview & Pretest with performance analysis

Life Science

Lesson 2: #1 Cell Structures and Functions & #2 Cells and Energy

Lesson 3: #3 Genetics & #4 Human Body Systems

Lesson 4: #5 The Nervous System and #6 Behavior & Evolution

Lesson 5: #7 Energy Flow in Ecosystems & #8 Cycles in Ecosystems

Earth and Space Science

Lesson 6: #9 The Structure of the Earth & #10 The Changing Earth

Lesson 7: #11 Weather and Climate & #12 Earth's Resources

Lesson 8: #13 Earth in Space

Physical Science

Lesson 9: #14 Matter & #15 The Structure of Atoms and Molecules

Lesson 10: #16 Chemical Reactions

Lesson 11: #17 Motion and Forces & #18 Work and Energy

Lesson 12: #19 Electricity and Magnetism & #20 Waves

Lesson 13: GED Science Post-test and Performance Analysis Chart

Lesson 14: Review as Needed (Points of emphasis from post-test analysis)

Lesson 15: Review as Needed