

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: FRSC 250

Credit hours: 3

Course Title: Hazardous Materials Chemistry

Course Prerequisites:

Textbook(s): Meyer, E., Chemistry of Hazardous Materials, 6th ed., Brady Publishing

Course Description: This course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, and health hazards encountered by emergency services.

Learning Outcomes:

At the end of the course, the student will be able to

- A. demonstrate a basic understanding of hazardous materials chemistry
- B. demonstrate proficiency in the use of DOT guidebooks

To achieve the learning outcomes, the student will be able to

1. identify and describe the common elements of the Periodic Table. (A)
2. distinguish between elements, compounds, and mixtures. (A)
3. explain the difference between ionic and covalent bonding. (A)
4. define the basic chemistry involved with common hydrocarbon derivatives. (A)
5. describe the basic chemical and physical properties of gases, liquids, and solids. (A)
6. discuss the nine U.S. Department of Transportation hazard classes and their respective divisions. (B)
7. demonstrate the utilization of guidebooks, MSDS, and other reference materials to determine an initial course of action. (A,B)

Course Requirements: To earn a grade of “C” or higher the student must earn **XXX%** of the total points for the course and meet all of the following course requirements.

Course Grading Scale:

Attendance Policy: **Attendance Policy:** The college attendance policy (for the classroom) is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>

Course Fees: (if applicable)

Nondiscrimination Statement

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COORDINATOR FOR SECTION 504 AND ADA

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Equity/Compliance Coordinator

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