

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: EVR 1633

COURSE TITLE: Hazardous Materials Emergency Response I

PREREQUISITE(S): None

COREQUISITE(S): None

CREDIT HOURS: 4

CONTACT HOURS/WEEK: 6

CONTACT HOUR BREAKDOWN:

 Lecture/Discussion: 2

 Laboratory: 4

 Other _____: 0

FACULTY WORKLOAD POINTS: 4

STANDARDIZED CLASS SIZE ALLOCATION: 30

CATALOG COURSE DESCRIPTION:

This course teaches the skills needed to develop response tactics in the event of an incident in a company or community. Hazard analysis, preparing contingency plans, employee training, and testing contingency plans are part of this course. Students also learn what resources are available to assist in analyzing specific situations and in determining the correct action to be taken. This course meets the SARA requirement for response training.

SUGGESTED TEXT(S): Cashman, J.R. Hazardous Materials Injuries,
Technomic Publishing Co., Inc., ISBN 87762-544-1

IMPLEMENTATION DATE: Spring Term, 2004 (20042)

REVIEW OR MODIFICATION DATE:

COURSE TOPICS	CONTACT HOURS <u>PER TOPIC</u>
I. Introduction to Regulations A. Site Safety and Health B. Environmental Protection Agency C. Hazard Recognition 1. Respirators 2. Personal Protective Equipment D. Lab	18
II. Site Characterization A. Site Control B. Decontamination C. Medical Surveillance D. Toxicology E. Lab	18
III. Chemical Awareness	18
IV. Biological/Radiological Hazards A. Sampling B. Safe Work Practices C. Confined Space D. Lab	18
V. Engineering Controls A. Emergency Procedures B. Plugs C. Patches D. Overpacks E. Lab	18

PROGRAM TITLE: Environmental Science
 COURSE TITLE: Hazardous Materials Emergency Response I
 CIP NUMBER: 0715059901/1715059901

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S):	TITLES(S):
01.0	Demonstrate knowledge of the principles of managing and remediation of water pollution--The student will be able to:
01.03	Describe surface water, groundwater systems, hydrologic cycle, and potable water treatment processes.
02.0	Demonstrate knowledge of the principles of managing and remediation of air pollution--The student will be able to:
02.03	Collect and analyze air samples.
02.08	Record, interpret and report laboratory analyses.
03.0	Demonstrate awareness of environmental noise sources and their monitoring--The student will be able to:
03.01	Define and discuss the physical properties of sound.
03.02	Discuss the threshold of hearing, tolerance, and hearing loss.
03.03	Discuss environmental noise, its effect on humans, and solutions to noise pollution.
06.0	Demonstrate an awareness of radiation monitoring and radioactive contamination control--The student will be able to:
06.05	Discuss nuclear power plant design, nuclear power hazards, and safety features.
06.06	Discuss nuclear fuel reprocessing and storage.
07.0	Demonstrate an awareness of solid waste, the problems engendered by solid waste accumulation and disposal and solutions to those problems--The student will be able to:
07.03	Discuss various solutions to solid waste accumulations and disposal.
08.0	Demonstrate employability skills--The student will be able to:
08.02	Secure information about a job.
08.03	Identify documents that may be required when applying for a job.
08.05	Demonstrate competence in job interview techniques.
08.08	Demonstrate knowledge of how to make job changes appropriately.



**Florida Community College
At Jacksonville**

**Course Learning Outcomes & Assessment
For All College Credit Courses**

NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

<i>Section 1</i>	
COURSE PREFIX AND NUMBER: EVR 1633	SEMESTER CREDIT HOURS: 4
COURSE TITLE: Hazardous Materials Emergency Response I	

Section 2

TYPE OF COURSE: (Click on the box to check all that apply)

AA Elective

 AS Required Professional Course

 College Prep
 AS Professional Elective

 AAS Required Professional Course

 Technical Certificate
 Other
 General Education: (For General Education courses, you must also complete Section 3 and Section 7)

Section 3 (If applicable)

INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:

Communications

 Social & Behavioral Sciences

 Mathematics
 Natural Sciences

 Humanities

Section 4

INTELLECTUAL COMPETENCIES:

Reading
 Speaking
 Critical Analysis

 Quantitative Skills

 Scientific Method of Inquiry
 Writing
 Listening
 Information Literacy

 Ethical Judgment

 Working Collaboratively

<i>Section 5</i>		
LEARNING OUTCOMES		METHOD OF ASSESSMENT
•	Upon completion of course students will be able to:	
•	Demonstrate the skills needed to respond to a hazardous materials emergency incident at a company or in the community.	Group discussions, assignments, quizzes & tests, reports, creative projects, and/or demonstrate competency in the field.
•	Demonstrate knowledge of hazard analysis procedures and familiarity with the requirements of Superfund Amendments and Reauthorization Act (SARA).	Group discussions, assignments, quizzes & tests, reports, oral presentations, creative projects, and/or demonstrate competency in the field.
•	Prepare and test Hazardous Materials Emergency contingency plans, and deliver employee training.	Group discussions, assignments, quizzes & tests, reports, oral presentations, and/or demonstrate competency in the field.
•	Demonstrate ability to use available resources to assist in analyzing specific emergency situations and determine the correct action to be taken.	Group discussions, assignments, quizzes & tests, creative projects, reports, and/or demonstrate competency in the field.

Section 6 Name of Person Completing This Form: **Nikki Pierce** Date: **November 16, 2007**