FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	EVR 2630
COURSE TITLE:	Hazardous Materials Risk Analysis
PREREQUISITE(S):	EVR 1030
COREQUISITE(S):	None
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	3
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	3
Laboratory:	
Other _____:	
FACULTY WORKLOAD POINTS:	3
STANDARDIZED CLASS SIZE ALLOCATION:	30

CATALOG COURSE DESCRIPTION:

Prerequisite: EVR 1030 Environmental Compliance with a grade of "C" or better or administrative approval.

This course presents a systematic method to be utilized when analyzing risks associated with hazardous materials. This type of analyses might be done as part of a planning operation, when time is not a critical factor, or it might be done at the scene of an incident involving the leak of a hazardous material. Students will be taught the essential resources needed for each situation and how to use them.

SUGGESTED TEXT(S):	Aldrich, T. & Griffith, J, Environmental Epidemiology and Risk Assessment, Van Nostrand Reinhold, ISBN 0-442-00885-6.
	Student Handouts
IMPLEMENTATION DATE:	Spring Term, 2004 (20042)
REVIEW OR MODIFICATION DATE:	

COURSE TOPICS	CONTACT HOURS PER TOPIC
I. Introduction	9
A. Federal Policy B. Epidemiology C. Toxicology	
II. Disease and the Environment	9
III. Phase I Audit	9
IV. Environmental Audit	9
V. Health Audit	9

PROGRAM TITLE: Environmental Science

COURSE TITLE: Hazardous Materials Risk Analysis

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.
01.06	Describe legal aspects and consequences of pollution.
02.0	Demonstrate knowledge of the principles of managing and remediation of air pollution.
02.04	Describe legal aspects and consequences of air pollution.
02.05	List the regulated parameters of emission for selected industrial sources.
03.0	Demonstrate awareness of environmental noise sources and their monitoring.
03.04	Discuss legal aspects and consequences of noise pollution.
03.06	Select the regulatory agency that controls noise sources.
05.0	Sample, analyze and calculate data related to air and water pollutants.
05.02	Manipulate data and reach firm conclusions.
06.0	Demonstrate an awareness of radiation monitoring and radioactive contamination control.
06.07	Discuss legal aspects and consequences of radioactive pollution.
07.0	Demonstrate an awareness of solid waste, the problems engendered by solid waste accumulation and disposal and solutions to those problems.
07.04	Discuss the legal aspects and consequences of solid waste pollution.
07.10	Discuss those wastes that are permitted by state and federal regulation to be disposed at a landfill site.
08.0	Demonstrate employability skills.
08.06	Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons.
08.07	Identify acceptable work habits.
08.09	Demonstrate acceptable employee health habits.

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.

Section 1	
COURSE PREFIX AND NUMBER: **EVR 2630**	SEMESTER CREDIT HOURS: **3**
COURSE TITLE: Hazardous Materials Risk Analysis	

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**

Section 5 **LEARNING OUTCOMES**		**METHOD OF ASSESSMENT**
•	Upon completion of course students will be able to:	
•	Understand the basic principles of the systematic method of analyzing risks associated with hazardous materials.	Group discussions, assignments, quizzes & tests, reports and/or demonstrate competency in the field.
•	Demonstrate knowledge of analyses as part of a planning operation, and at the scene of a hazardous material incident.	Group discussions, assignments, quizzes & tests, reports and/or demonstrate competency in the field.
•	Demonstrate understanding of the systematic application of policies, practices and resources to the assessment and control of risk affecting human health, safety, and the environment.	Group discussions, assignments, quizzes & tests, reports, classroom presentation, and/or demonstrate competency in the field.
•	Apply knowledge of risk analysis using research data of past incidents to determine the best course of action in the interest of worker and public safety, protection of property and the environment, and minimize cost to the public, industry and government.	Group discussions, assignments, quizzes & tests, research reports/presentations, and/or demonstrate competency in the field.

Section 6 Name of Person Completing This Form: **Nikki Pierce** Date: **November 29, 2007**