

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	EVR 1015
COURSE TITLE:	Hazardous Material and the Environment
PREREQUISITE(S):	None
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:	
	This course covers the basic principles regarding the relationship between man and his environment. Emphasis is placed on an investigation into the physical, biological, economic, social, and political factors producing ecological changes. In addition, effects of hazardous materials upon the environment are studied.
SUGGESTED TEXT(S):	
	Aldrich, T. & Griffith, J. <u>Environmental Epidemiology and Risk Assessment</u> , Van Nostrand Reinhold, ISBN 0-442-00885-6.
	Lippmann, M., ed. <u>Environmental Toxicants, Human Exposures and Their Effects</u> , Van Nostrand Reinhold ISBN 0-442-00549-0.
	Lappe, M. <u>Chemical Deception: The Toxic Threat to Health and the Environment</u> , Sierra Club (1991).
	Student Handouts (including case studies)
IMPLEMENTATION DATE:	Spring Term, 2004 (20042)
REVIEW OR MODIFICATION DATE:	

COURSE TOPICS	CONTACT HOURS <u>PER TOPIC</u>
I. Ecosystem and the Environment	11
A. What are Ecosystems? B. The basic ecosystems found in North Florida. C. Man's effect on ecosystems and the environment.	
II. Relationship of Humans to Other Species	12
A. The balance between a chemically-oriented society and the need for environmental protection. B. Case studies of environmental effects caused by chemical releases.	
III. Pollution Prevention and What it Means to the Environment.	22
A. The need for protection of the environment as a means of Protecting and improving human quality of life. B. The concept of pollution prevention as it applies to industry. C. Specific pollution prevention measures for use in specified industries. D. Assessment of specific ecosystems for damage caused by chemical releases (case studies).	

PROGRAM TITLE: Environmental Science
 COURSE TITLE: Hazardous Material and the Environment
 CIP NUMBER: 0715059901/1715059901

LIST PERFORMANCE STANDARD(S) ADDRESSED:

NUMBER(S):	TITLES(S):
01.0	Demonstrate knowledge of the principles of managing and remediation of water pollution.
01.05	Identify types and sources of water contamination.
01.06	Describe legal aspects and consequences of pollution.
02.0	Demonstrate knowledge of the principles of managing and remediation of air pollution.
02.02	Identify natural and manmade pollutants; their sources, effects, and control techniques.
02.04	Describe legal aspects and consequences of air pollution.
03.0	Demonstrate awareness of environmental noise sources and their monitoring.
03.04	Discuss legal aspects and consequences of noise pollution.
06.0	Demonstrate an awareness of radiation monitoring and radioactive contamination control.
06.02	Discuss types and sources of radiation.
06.04	Discuss the immediate and long range effects of radiation on animals and plants.
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.
07.02	Discuss methods of solid waste disposal.
07.04	Discuss the legal aspects and consequences of solid waste pollution.
07.05	Identify the solid wastes from domestic households, municipalities and industry.
07.08	Discuss the possibilities of contaminates (leachates) seeping into the groundwater.
08.0	Demonstrate employability skills.
08.07	Identify acceptable work 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 1015	SEMESTER CREDIT HOURS: 3
COURSE TITLE: Hazardous Materials and the Environment	

Section 2
TYPE OF COURSE: (Click on the box to check all that apply)

<input type="checkbox"/> AA Elective	<input type="checkbox"/> AS Required Professional Course	<input type="checkbox"/> College Prep
<input checked="" type="checkbox"/> AS Professional Elective	<input type="checkbox"/> AAS Required Professional Course	<input checked="" type="checkbox"/> Technical Certificate
<input type="checkbox"/> Other		
<input type="checkbox"/> 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:

<input type="checkbox"/> Communications	<input type="checkbox"/> Social & Behavioral Sciences	<input type="checkbox"/> Mathematics
<input type="checkbox"/> Natural Sciences	<input type="checkbox"/> Humanities	

Section 4
INTELLECTUAL COMPETENCIES:

<input checked="" type="checkbox"/> Reading	<input checked="" type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis	<input checked="" type="checkbox"/> Quantitative Skills	<input checked="" type="checkbox"/> Scientific Method of Inquiry
<input checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input checked="" type="checkbox"/> Information Literacy	<input type="checkbox"/> Ethical Judgment	<input type="checkbox"/> Working Collaboratively

Section 5		LEARNING OUTCOMES	METHOD OF ASSESSMENT
•	Upon completion of course students will be able to:		
•	Understand the basic principles of the relationship between man and his environment.		Group discussions, assignments, quizzes & tests, reports and/or demonstrate competency in the field.
•	Demonstrate knowledge of the physical, biological, economic, social and political factors producing ecological changes.		Group discussions, assignments, quizzes & tests, reports and/or demonstrate competency in the field.
•	Demonstrate understanding of the effects of hazardous materials upon man and the environment.		Group discussions, assignments, quizzes & tests, reports, creative projects and/or demonstrate competency in the field.
•	Apply theories effecting change in the ecological environment as a result of physical, biological, economic, social and political behavior.		Group discussions, assignments, quizzes & tests, reports and/or demonstrate competency in the field, and oral presentations.
•			

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