

Three Rivers Community College
ENV K220: HAZWOPER/Hazmat Training
Spring 2017
Tentative Course Syllabus – subject to change

Lecture: Thursday 6:30 pm – 9:15 pm, Room D128

Instructor:

Bruce G Gregoire

bgregoire@qvcc.commnet.edu

Office Hours: By appointment

Textbook: Required readings on Blackboard or in handouts.

Course Description

This course is a study of accident prevention, safety, industrial hygiene and proper procedures for handling hazardous materials. Properties of many industrial reagents and solvents are examined so they can be handled and stored properly. The following specific topics will be covered: Safety Data Sheets (SDS), labeling, personnel training and records, emergency response program, toxicity routes of entry, storage, ventilation, personal protective equipment (PPE), and barriers and spills containment. Requirements of OSHA, SPCC, RCRA, and TSCA will be reviewed to provide students with a working knowledge of the regulations. This course meets the requirements of 29 CFR 1910.120.

Course Objectives:

At the conclusion of this course, students will be able to:

1. Select, use, and maintain personal protective equipment to minimize hazardous chemical exposures
2. Assess hazardous waste sites in terms of risk evaluations, including but not limited to chemical, radiological, and biological hazards
3. Diagram site health and safety plans (HASPs), by means of organizational charts, and flow diagrams.
4. Identify proper monitoring and sampling protocols and equipment, based on the hazard assessment described above.

Field Exercise:

A **MANDATORY** field exercise will be part of the semester's syllabus, and will take place as a single event, and be the equivalent of 6 class hours. This is a mock hazardous waste site, and students will practice sampling techniques, analytical methods, emergency response drills, and decontamination procedures. Student's performance during the exercise will be evaluated by the Instructor. There will be no opportunity for a make-up field exercise, and no substitution for the exercise will be offered or considered. Students will not have fulfilled the course requirements if they miss this exercise.

Students who do successfully complete all course requirements will receive a certificate recognizing their completion of the requirements for the OSHA 40-hour credential. Successful completion of the course will increase the marketability of students planning to work in the environmental field.

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Week	Date	Topic
1	Jan 19	Introduction, Environmental Regulations, Rights & Responsibilities
2	26	OSHA, Industrial Hygiene, RCRA CA
3	Feb 2	Chemical Safety and HazCom (GHS), Toxicological Principles
4	9	<u>HazCom Quiz</u> , , Radiation Safety, Air Monitoring, Exposure Limits
5	16	Medical Surveillance, Respiratory Protection, PPE, Ladders and Scaffolding
6	23	Hazard Control, Confined Space, Excavation & Trenching
7	Mar 2	Physical and Biological Hazards, Bloodborne Pathogens, Exam Review
8	9	<u>Mid-term Exam</u>
9	16	Mar 13-19: Spring Break
10	23	HASP/Site Characterization
11	30	HAZWOPER: Emergency Response, Command, and Decontamination
12	Apr 6	Site Controls, Materials Sampling and Handling
13	13	Emergency Planning and Community Right-to-Know Act (EPCRA)
14	20	<i>Field Exercise</i> (Tentative)
15	27	<i>Field Exercise</i> (Tentative)
16	May 4	Reading/Make-up Day
17	11	<u>Final Exam</u>

Grading:

Class Participation/in-class activities	10%
Field Exercise	25%
HazCom Quiz	5%
Midterm Exam	30%
Comprehensive Final	30%

Course Grading:

Final letter grades for the course generally mean the following percentage of points:

Letter grade	Percentage of points	Percentage range
A	95	93.3 - 96.7
A-	91.65	90.0 – 93.2
B+	88.3	86.7 – 89.9
B	85	83.3 – 86.6
B-	81.65	80.0 – 83.2
C+	78.3	76.7 – 79.9
C	75	73.3 – 76.6
C-	71.65	70.0 – 73.2
D+	68.3	66.7 – 69.9
D	65	63.3 – 66.6
D-	61.65	60.0 – 63.2
F	<60.0	< 60.0

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Important Dates

Add/Drop: The last day to drop and obtain partial tuition refund for this course is February 1, 2017.

Withdrawal: The last day to withdrawal from this course is May 8, 2017.

Religious Holidays:

Sec. 10a-50. (Formerly Sec. 10-334g). Absence of students due to religious beliefs. No person shall be expelled from or refused admission as a student to an institution of higher education for the reason that he is unable, because the tenets of his religion forbid secular activity on a particular day or days or at a particular time of day, to attend classes or to participate in any examination, study or work requirements on such particular day or days or at such time of day. Any student in an institution of higher education who is unable, because of such reason, to attend classes on a particular day or days or at a particular time of day shall be excused from any examination or any study or work assignments on such particular day or days or at such particular time of day. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school because of such reason an equivalent opportunity to make up any examination, study or work requirements which he has missed because of such absence on any particular day or days or at any particular time of day. No special fees of any kind shall be charged to the student for making available to such student such equivalent opportunity. No adverse or prejudicial effects shall result to any student because of his availing himself of the provisions of this section. For the purposes of this section, "institution of higher education" shall mean any of the schools comprising the state system of higher education, as defined in section 10a-1. (P.A. 75-367, S. 1.)

myCommNet Alert: is a system that sends text messages and emails to anyone signed up in the event of a campus emergency. Additionally, TRCC sends messages when the college is delayed or closed due to weather.

All students are encouraged to sign up for myCommNet Alert. A tutorial is available on the Educational Technology and Distance Learning Students page of the web site. This link should be shared with students.

http://www.trcc.commnet.edu/div_it/educationaltechnology/Tutorials/myCommNetAlert/MIR3.html

KEYS TO SUCCESS

Readings:

To ensure success in the classroom and to take active participation in your learning, each assigned reading should be read prior to the week assigned. Reading the material ahead of time will allow you to gain a familiarity with the concepts prior to learning about the concept in class. This will increase your understanding and allow you to participate by asking questions on the material that you find complex or confusing.

Attendance:

Although attendance is not mandatory, attendance is necessary to succeed in this course.

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Academic Dishonesty:

Plagiarism means using someone else's statement word-for-word without quotation marks (even if you cite it) or using someone else's ideas, even if you paraphrase them, without proper attribution of credit through a citation.

Student Code of Conduct: All students should be aware of the guidelines for the Student Code (http://www.trcc.commnet.edu/Div_StudentServices/StudentPrograms/PDF/TRCC-StudentHandbook.pdf)
College Policies: Student Conduct and Discipline Policy, a portion of which is repeated below:

Section 3: Expectations for Student Conduct

Consistent with the Student Conduct Philosophy set forth in Section 1 of this Policy, students are expected to:

"2. Demonstrate academic integrity by not engaging in conduct that has as its intent or effect the false representation of a student's academic performance, including but not limited to: cheating on an examination, collaborating with others in work to be presented, contrary to the stated rules of the course, plagiarizing, including the submission of others' ideas or papers (whether purchased, borrowed or otherwise obtained) as one's own, stealing or having unauthorized access to examination or course materials, falsifying records or laboratory or other data, submitting, if contrary to the rules of a course, work previously presented in another course, and knowingly assisting another student in any of the above, including an arrangement whereby any work, classroom performance, examination, or other activity is submitted or performed by a person other than the student under whose name the work is submitted or performed."

The penalty for cheating on an exam will be a zero.

Counseling and Student Development Services at TRCC:

If you have a question regarding a special learning need that may affect your progress in this course, please contact Student Services, Room A-119 (860-383-5217) as soon as possible. *Please note that I cannot provide special learning accommodations until I receive the necessary paperwork from the college's Office of Counseling and Student Development Services. Accommodations cannot be provided retroactively.*

Available Support Services:

If you need additional assistance for this course, tutors, study skill workshops, and other course assistance can be arranged by contacting the Tutoring and Academic Success Centers, Room C117 (860-892-5713). If you have not yet used the library to obtain information and search scientific articles, you may contact the Library for more training and information (860-885-2346).

Class Etiquette:

The use of cell phones and personal handheld electronic devices during class detracts from the learning environment for both yourself and your classmates. Please place all cell phones on silent during the class. If you must answer a call, please leave the classroom quietly to do so. During exams and quizzes, please turn in your exam/quiz prior to leaving, as it will be considered complete.

**BOARD OF REGENTS FOR HIGHTER EDUCATION AND CONNECTICUT STATE
COLLEGES AND UNIVERSITIES POLICY REGARDING SEXUAL MISCONDUCT
REPORTING, SUPPORT SERVICES AND PROCESSES POLICY**

Statement of Policy for Public Act No. 14-11: An Act Concerning Sexual Assault, Stalking and Intimate Partner Violence on Campus:

“The Board of Regents for Higher Education (BOR) in conjunction with the Connecticut State Colleges and Universities (CSCU) is committed to insuring that each member of every BOR governed college and university community has the opportunity to participate fully in the process of education free from acts of sexual misconduct, intimate partner violence and stalking. It is the intent of the BOR and each of its colleges or universities to provide safety, privacy and support to victims of sexual misconduct and intimate partner violence.”

**UNITED STATES DEPARTMENT OF EDUCATION AND OFFICE OF CIVIL RIGHTS
TITLE IX STATEMENT OF POLICY:**

“Title IX of the Education Amendments of 1972 (Title IX) prohibits discrimination based on sex in education programs and activities in federally funded schools at all levels. If any part of a school district or college receives any Federal funds for any purpose, all of the operations of the district or college are covered by Title IX.

Title IX protects students, employees, applicants for admission and employment, and other persons from all forms of sex discrimination, including discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. All students (as well as other persons) at recipient institutions are protected by Title IX – regardless of their sex, sexual orientation, gender identity, part-or full-time status, disability, race, or national origin-in all aspects of a recipient’s educational programs and activities.”

If any student experiences sexual misconduct or harassment, and/or racial or ethnic discrimination on Three Rivers Community College Campus, or fears for their safety from a threat while on campus, please contact Edward A. Derr, the Diversity Officer and Title IX Coordinator:

Edward A. Derr
Title IX Coordinator and Diversity Officer
Admissions Welcome Center * Office A116
574 New London Turnpike, Norwich CT 06360
860.215.9255 * EDerr@trcc.commnet.edu

Digication:

As a student you will maintain an online learning portfolio using a college-designed template in Digication. Through this electronic tool you will have the opportunity to monitor your own growth in college-wide learning. It may even help you determine a major that is best suited to you. You will be

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able to keep and maintain your learning portfolio after graduation. A Three Rivers General Education Assessment Team will select and review random works to improve the college experience for all. If your work is selected and reviewed for assessment purposes, it will remain anonymous and private. Digication provides a “place” where you will connect your learning from the classroom, college, and life in general. Sometimes when you review all of the work you have done and think about it, you end up learning something different and perhaps unexpected. Please review your course outlines to determine what assignments to upload into the TRCC Digication template and please post your own choices, as well. Have fun in learning!