

# Brazosport College

## Syllabus for OSH 1309 - Physical Hazards Control

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### I. COURSE DESCRIPTION

#### **OSHT 1309 - Physical Hazards Control CIP 1507010011**

A study of the common physical hazards in industry and methods of workplace design and redesign to control hazards. Emphasis on the regulation codes and standards associated with the control of physical hazards. Designed to be a review of the plant workplace and to focus on best practices in hazard control. **Credit Hours: 3** (3 lecture, 0 lab)

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Samuel Chamberlain

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Om Chawla

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Gary Hicks

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Jeff Detrick

August 2021

**A. Prerequisite: OSH 1301 or OSH 1405 or OSH 2309.**

**Required skill level: Math:** College-level with corequisite (placement code 3).

## **II. COURSE OBJECTIVES**

The following list of course goals will be addressed in the course.

Identify the common physical hazards in industry; design a hazard free work environment; utilize hazard recognition techniques to implement safe control practices; describe the hazard control measures used in workplace designs; and list Occupational Safety and Health Administration (OSHA) standards and other applicable codes and describe their applications.

- 1) Identify key safety program elements in the layout, construction, maintenance and operation of industrial facilities
- 2) Demonstrate an understanding of requirements for hazards from, but not limited to: boilers, unfired pressure vessels and relief systems, stored energy, electricity and chemicals.
- 3) Understand and evaluate ergonomic and material handling concerns in the workplace  
Identify fire hazards, fire prevention, fire investigation, and controls for handling flammable and combustible materials at the industrial site.

**Assessment: Class discussion, quizzes and exams, and term project**

## **III. STUDENT LEARNING OUTCOMES**

A study of the physical hazards in industry and the methods of workplace design and redesign to control these hazards. Emphasis on the regulation codes and standards associated with the control of physical hazards

## **IV. TEXTBOOK OR COURSE MATERIAL INFORMATION**

### **A. Textbook**

1. Physical Hazards of the Workplace, Barry Spurlock, 2<sup>nd</sup> Ed., CRC Press Publisher, 2018. ISBN: 978-1-466557031 (required)

Required course materials are available at the Brazosport College bookstore, on campus or online at <http://brazosport.edu/bookstore/home.html>. A student of this institution is not under any obligation to purchase a textbook from the college bookstore. The same textbook is/may also be available from an independent retailer, including an online retailer.

**For Distance Education Courses include the following:** Contact the Brazosport College Bookstore with a credit card for course materials. Phone: 979-230-3651. Fax: 979-230-3653. Email: [bookstore@brazosport.edu](mailto:bookstore@brazosport.edu). Website: <http://brazosport.edu/bookstore/home.html>

## B. Course Outline

**This is a sample outline which may vary with individual instructors. It will also vary based on whether the course is a summer course or a fall/spring course. Students should contact their instructor for the outline of the course they are taking.**

### **Student Projects/Responsibilities:**

- **Chapter Readings:** Each student should come to class prepared to discuss the chapters assigned for that class. Students will be called upon in random order. All chapters will be discussed for each class.
- **Current Events:** Each student should come to class with a current events report about Industrial Hygiene from a credible news source {PBS, Reuters, BBC, Associated Press: Do NOT use Tabloids, TV or New York Times}

Week	Activity/Topics
1	Introduction to Occupational Safety and Health Risk Control
2	Process Safety Hazard Analysis and Controls Ergonomics
3	Labor Day
4	Facilities System Safety and Electrical Safety
5	Pressure Vessels and Safeguarding and Confined Space Hazards
6	Personal Protective Equipment
7	Worker Health; Hearing Protection; Risk Control for People Issues
8	Hazardous Materials
9	Mid Term Exam
10	Fire Safety and Emergency Response
11	Materials Handling and Storage Operations
12	Large Materials Handling; Fall Hazards
13	Machine Shop Hazards
14	Metal Working and Forming; Hot Work
15	Final Review
16	Final Exam

<b>WEEK</b>	<b>Activities</b>
<b>1</b>	<b>Introduction to Occupational Safety and Health Risk Control</b> <ul style="list-style-type: none"> <li>• History of Workplace Safety</li> <li>• Definitions and Basic Concepts</li> <li>• OSHA</li> </ul> <b>Textbook Readings:</b> Chapter One: Regulatory Issues  <b>Class Activity:</b> SHEM Video/DVD: 40099 Proactive Safety  <b>Homework Assignment: Read Chapters for Next Week</b>
<b>WEEK</b>	<b>Activities</b>
<b>2</b>	<b>Process Safety Hazard Analysis and Controls</b> <ul style="list-style-type: none"> <li>• System Safety Fundamentals</li> <li>• Continuous Process Operations</li> </ul> <b>Ergonomics</b> <ul style="list-style-type: none"> <li>• Warehouse and Materials Handling</li> <li>• Office and Workstation</li> </ul> <b>Textbook Readings:</b> Chapter Two: Ergonomics  <b>Class Activity:</b> SHEM Video/DVD: 30004 Introduction to PSM  <b>Homework Assignment: Read Chapters for Next Week</b>
<b>WEEK</b>	<b>Activities</b>
<b>3</b>	<b>Labor Day</b>
<b>WEEK</b>	<b>Activities</b>
<b>4</b>	<b>Facilities System Safety</b> <ul style="list-style-type: none"> <li>• Facilities Hazard Analysis</li> <li>• Fundamental Facilities Issues in               <ol style="list-style-type: none"> <li>1. Layout and Design</li> <li>2. Construction</li> <li>3. Maintenance and Modifications</li> </ol> </li> </ul> <b>Electrical Safety</b> <ul style="list-style-type: none"> <li>• Electric Systems</li> <li>• Lockout/Tagout</li> </ul> <b>Textbook Readings:</b> <ul style="list-style-type: none"> <li>• Chapter Six: Electrical Safety</li> <li>• Appendix A: OSHA Inspection Checklist</li> </ul> <b>Class Activity:</b> SHEM Video/DVD: 40097 Job Hazard Analysis <b>Homework Assignment: Read Chapters for Next Week</b>
<b>WEEK</b>	<b>Activities</b>
<b>5</b>	<b>Pressure Vessels and Safeguarding</b>

<b>5 (cont.)</b>	<ul style="list-style-type: none"> <li>• Design, Usage and Functions</li> <li>• Hazards</li> <li>• Care of</li> </ul> <p><b>Confined Space Hazards</b></p> <p><b>Textbook Reading:</b></p> <ul style="list-style-type: none"> <li>• Chapter Five: Confined Space Hazards</li> <li>• Appendix D: Confined Spaces</li> </ul> <p><b>Class Activity:</b> SHEM Video/DVD: 40001 LOTO for Confined Spaces</p> <p><b>Homework Assignment: Read Chapters for Next Week</b></p>
<b>WEEK</b>	<b>Activities</b>
<b>6</b>	<p><b>Personal Protective Equipment</b></p> <ul style="list-style-type: none"> <li>• OSHA PPE Standard</li> <li>• Head</li> <li>• Feet</li> <li>• Eyes and Face</li> <li>• Hands and Gloves</li> <li>• Body Protection</li> <li>• Respiratory Protection</li> <li>• Cleanup and Maintenance</li> </ul> <p><b>Textbook Reading:</b></p> <ul style="list-style-type: none"> <li>• Chapter Three: Respiratory Hazards</li> <li>• Appendix C: Respiratory Equipment</li> <li>• Appendix F: Air Contaminants</li> </ul> <p><b>Class Activity:</b> SHEM Video/DVD: 30009 Hand Safety Video</p> <p><b>Homework Assignment: Read Chapters for Next Week</b></p>
<b>WEEK</b>	<b>Activities</b>
<b>7</b>	<p><b>Worker Health</b></p> <ul style="list-style-type: none"> <li>• Occupational Health Programs</li> <li>• Medical Surveillance</li> <li>• Americans with Disabilities Act</li> </ul> <p><b>Hearing Protection</b></p> <p><b>Risk Control for People Issues</b></p> <ul style="list-style-type: none"> <li>• Contractor Safety Program Requirements and Operations</li> <li>• Workplace Violence</li> <li>• Stress</li> <li>• Customer and Visitor Safety</li> </ul>

<b>7 (cont.)</b>	<b>Textbook Reading:</b> <ul style="list-style-type: none"> <li>• Chapter Nine: Hearing Protection</li> <li>• Appendix B: Employee Workplace Rights</li> <li>• Appendix G: Workplace Violence</li> </ul> <b>Homework Assignment: Read Chapters for Next Week</b>
<b>WEEK</b>	<b>Activities</b>
<b>8</b>	<b>Hazardous Materials</b> <ul style="list-style-type: none"> <li>• Hazard Communication Programs</li> <li>• Flammable and Combustible Liquids</li> </ul> <b>Textbook Reading:</b> Chapter Twelve: Chemical Hazards <b>Student Tasks:</b> You should spend the week reviewing for the mid-term exam <b>Class Activity:</b> SHEM Video/DVD: 30007 HAZCOM Series  Student Presentations Begin  <b>Homework Assignment: Read Chapters for Next Week</b>
<b>WEEK</b>	<b>Activities</b>
<b>9</b>	<b>Mid Term Exam</b>
<b>WEEK</b>	<b>Activities</b>
<b>10</b>	<b>Fire Safety and Emergency Response</b> <ul style="list-style-type: none"> <li>• Emergency Planning</li> <li>• Fire Prevention and Suppression</li> <li>• Emergency Response</li> </ul> <b>Textbook Reading:</b> Chapter Eleven: Emergency and Disaster Preparedness  <b>Class Activity:</b> SHEM Video/DVD: 40094 Emergency Action Plans <b>Homework Assignment: Read Chapters for Next Week</b>
<b>WEEK</b>	<b>Activities</b>
<b>11</b>	<b>Materials Handling and Storage Operations</b> <ul style="list-style-type: none"> <li>• Warehouse Operations</li> <li>• Powered Industrial Trucks and Lifts</li> </ul> <b>Textbook Reading:</b> Chapter Four: Fire and Explosion Hazards  <b>Class Activity:</b> SHEM Video/DVD: 40023 Klaus Forklift Driver  <b>Homework Assignment: Read Chapters for Next Week</b>
<b>WEEK</b>	<b>Activities</b>
<b>12</b>	<b>Large Materials Handling</b> <ul style="list-style-type: none"> <li>• Hoists</li> <li>• Conveyors</li> <li>• Rigging and Slings</li> <li>• Haulage and Off-Road Equipment</li> </ul>

<b>12 (cont.)</b>	<b>Fall Hazards</b> <b>Textbook Reading:</b> <ul style="list-style-type: none"> <li>• Chapter Eight: Fall Hazards</li> <li>• Appendix E: Fall Hazards</li> </ul> <b>Homework Assignment: Read Chapters for Next Week</b>
<b>WEEK</b>	<b>Activities</b>
<b>13</b>	<b>Machine Shop Hazards</b> <ul style="list-style-type: none"> <li>• Hand and Power Tools</li> <li>• Woodworking</li> <li>• Guarding</li> </ul> <b>Textbook Reading:</b> <ul style="list-style-type: none"> <li>• Chapter Seven: Machine Guarding</li> <li>• Appendix H: Machine Guarding Checklist</li> </ul> <b>Class Activity:</b> SHEM Video/DVD: 30050 Power Tool Safety <b>Homework Assignment: Read Chapters for Next Week</b>
<b>WEEK</b>	<b>Activities</b>
<b>14</b>	<b>Metal Working and Forming</b> <ul style="list-style-type: none"> <li>• Metalworking Machinery</li> <li>• Cold Forming of Metals</li> </ul> <b>Hot Work</b> <ul style="list-style-type: none"> <li>• Welding</li> <li>• Forging</li> </ul> <b>Textbook Reading:</b> Chapter Thirteen: Workplace Violence <b>Class Activity:</b> SHEM Video/DVD: 40076 Welding Class <b>Homework Assignment: Read Chapters for Next Week</b>
<b>WEEK</b>	<b>Activities</b>
<b>15</b>	<b>Final Review</b>
<b>WEEK</b>	<b>Activities</b>
<b>16</b>	<b>Final Exam</b>

### **Important Semester Dates:**

Last Day to Withdraw from Classes– Check BC Academic Calendar at  
<http://catalog.brazosport.edu/index.php>

**Office Hours:** See Faculty Schedule (last page)

### **V. STUDENTS WITH DISABILITIES**

Brazosport College is committed to providing equal education opportunities to every student. BC offers services for individuals with special needs and capabilities including counseling, tutoring, equipment, and software to assist students with special needs. For student to receive any accommodation, documentation must be completed in the Office of Disability Services. Please contact Phil Robertson, Special Populations Counselor at 979-230-3236 for further information.

## **VI. TITLE IX STATEMENT**

Brazosport College faculty and staff are committed to supporting students and upholding the College District's non-discrimination policy. Under Title IX and Brazosport College's policy FFDA (Local), discrimination based on sex, gender, sexual orientation, gender identity, and gender expression is prohibited. If you experience an incident of discrimination, we encourage you to report it. While you may talk to a faculty or staff member at BC, please understand that they are "Responsible Employees" and must report what you tell them to college officials. You can also contact the Title IX Coordinators directly by using the contact information below. Additional information is found on the Sexual Misconduct webpage at [www.brazosport.edu/sexualmisconduct](http://www.brazosport.edu/sexualmisconduct).

## **VII. ACADEMIC HONESTY**

Brazosport College assumes that students eligible to perform on the college level are familiar with the ordinary rules governing proper conduct including academic honesty. The principle of academic honesty is that all work presented by you is yours alone. Academic dishonesty including, but not limited to, cheating, plagiarism, and collusion shall be treated appropriately.

Academic dishonesty violates both the policies of this course and the Student Code of Conduct. In this class, any occurrence of academic dishonesty will be referred to the Dean of Student Services for prompt adjudication, and may, at a minimum, result in F, in this course. Sanctions may be imposed beyond your grade in this course by the Dean of Student Services.

Plagiarism is using another person's work or ideas without giving credit. Plagiarism is dishonest because it misrepresents the work of another as your own. This includes both copying the work verbatim or re-phrasing the ideas of another without properly acknowledging the source. When preparing work for course requirements, students must be careful to differentiate between their ideas and language and information derived from other sources. Sources include but are not limited to published and unpublished materials, the Internet and information and opinions gained directly from other people including faculty or other students. Plagiarism is considered a violation of academic integrity and professional honesty. Please refer to the Brazosport College Student Guide for more information. This is available online at <http://brazosport.edu/students/for-students/student-services/>.

## **VIII. ATTENDANCE AND WITHDRAWAL POLICIES**

Class attendance contributes to your final grade, but you must attend class to successfully complete the course. If you are unable to complete this course, you must complete and submit a withdrawal form with the registrar's office. If the student decides to drop out of the class it is the responsibility of the student to initiate a withdrawal before the withdrawal deadline in order to get a "W" on their transcript. If this is not done the student will receive a grade based on test grades and class grades earned during their attendance and absence (i.e. zeros on all missed materials, exams, skills tests, and final exam).

The Instructor may count tardiness as a partial absence. Since a significant part of the grade is based on class attendance, students are expected to be on time and attend the full class, until dismissed by the Instructor.



General Brazosport College Policies and Procedures apply to self-initiated course withdrawal and the time period within which that may occur. Please check with the current published College information for details.

Students who miss 3 or more classes in a Fall or Spring Session will usually be assumed to have abandoned the class and may be dropped. It is the Student's responsibility to contact the Instructor and explain any and all missed class time.

Since attendance is so important a part of the learning experience it has become necessary to modify the grading system. Full Fall and Spring Semesters have typically about 15 weeks of classes depending on holidays and exams schedule. For regular classes that means about 13 weeks of educational activity aside from mid-term and finals. Someone missing 3 classes then has missed almost 25% of course content.

Partial class attendance, arriving late or leaving early can result in a % loss of that day's attendance. For all absences after the 3rd absence each absence will count as 2 classes missed.

## **IX. COURSE REQUIREMENTS AND GRADING POLICY**

### **A. Grading:**

Mid Term Exam	20%
Final Exam:	20%
Quizzes:	20%
Term Project	20%
Attendance and Participation	20%

### **B. Scoring:**

- A (90 - 100%) -- Unqualified and unsurpassed mastery of the learning outcomes.
- B (80 - 89.9%) -- Unqualified mastery of the learning outcomes.
- C (70 - 79.9%) -- Qualified mastery of the learning outcomes.
- D (60 - 69.9%) -- Mastery of the learning outcomes but with significant qualifications.
- F (0 - 59.9%) -- Has not mastered the learning outcomes.
- I (Incomplete) -- Failed to complete assigned components.

**Honest and serious participation in each of the five course elements is required to pass the course. A failing grade will be assigned regardless of the overall score if the student fails to complete any one of the following items:**

- (1) Complete the mid-term exam**
- (2) Submit a term paper,**
- (3) Complete the final exam.**

### **C. Testing:**

A Mid Term and a Final Exam are required. A variety of quizzes or assignments in place of quizzes may be presented at the discretion of the Instructor.

#### **D. Make-Up Policy:**

A student will normally be given only one week in which to make up missed quizzes or assignments. Students who miss class delay the ability of other students to receive timely feedback on their work. It is the responsibility of each student to contact the Instructor on the day following the absence and to make time to come in before the next class to clear up the missed quiz or assignment. The Instructor is usually expected to give a score of zero to quizzes or assignments that are two weeks or more late.

#### **X. STUDENT CONDUCT STATEMENT**

Students are expected to be aware of and follow the Brazosport College Student Code of Conduct. Students have violated the Code if they “fail to comply with any lawful directions, verbal or written, of any official at BC.” Lawful directions include precautions and requirements taken to prevent the spread of COVID-19 at Brazosport College. Students who do not follow safety requirements, including the wearing of a mask, may be removed from class by their instructor and referred to the Dean of Student Services.

#### **XI. COVID-19 STATEMENT**

At Brazosport College, all of us, including faculty, staff and students, share a common goal this fall semester, to keep our classes running in the safest manner possible and avoid any disruption to your progress in achieving your educational and career goals. To that end, we ask and encourage you to conduct yourself in the following manner while on campus this semester:

- Every day, perform a self-health check prior to coming to campus and stay home if sick.
- To the greatest extent possible, maintain your distance between you and other students, faculty, and staff while on campus.
- Wear a properly fitted face covering over your mouth and nose while indoors on campus. If you do not have a mask, they will be available to you in all classrooms this fall.
- Practice good hygiene, washing your hands regularly and/or using hand sanitizer.
- The most effective way to protect yourself from Covid-19 is through vaccination. The vaccine is readily available and at no cost to you. Vaccine information and availability can be found at <https://brazosport.edu/coronavirus/vaccine/>.

If at any time this semester you begin to experience Covid symptoms, or if you are exposed to someone who has tested positive for Covid-19, please take the following steps:

- Stay home if you're feeling sick and minimize your contact with others.
- Alert the College by completing the Covid-19 Exposure Report Form online at <https://brazosport.edu/coronavirus/report/>. Be sure to provide accurate contact information, including a working phone number that you will answer.
- After submitting the report, you will be promptly contacted by a member of our Rapid Response Team, who will ask you some specific questions about your situation and provide you with guidance moving forward.
- If it is determined that you should not come to class, your instructor will be notified.

**Please know that your instructor will consider course adjustments and potential make-up work only if your case has been reported to Brazosport College, and they've been notified by our response team.** Your instructor will work with you to determine how to manage any make-up work.

The Community Health Network (CHN) Clinic at Brazosport College (located in BC Central B-Wing) is scheduled to be open from 8 AM to 6 PM Tuesday through Thursday during the Fall 2021 semester. While walk-ins are available, your visit will be easier if you pre-register by creating an account at [www.mychn.org](http://www.mychn.org). In addition to providing health and behavioral services, CHN also provides COVID vaccinations and testing. All insurance is accepted, and healthcare is provided on a sliding scale including no cost for those who need it.

Throughout the semester, please regularly check the College's Covid-19 information page at <https://brazosport.edu/coronavirus/>, where the latest updates and guidelines will be posted. As members of the BC community, all of us share a responsibility to each other to be as safe as possible.

## **XII. CAMPUS CLOSURE STATEMENT**

Brazosport College is committed to the health and safety of all students, staff, and faculty and adheres to all federal and state guidelines. The College intends to stay open for the duration of the semester and provide access to classes and support services on campus in the safest way possible. The College will also comply with lawful orders given by applicable authorities, including the Governor of Texas, up to and including campus closure. It is possible that on campus activities may be moved online and/or postpone if such orders are given.

## **XIII. STUDENT RESPONSIBILITIES**

Students are expected to fully participate in this course. The following criteria are intended to assist you in being successful in this course:

1. Understand the syllabus requirements
2. Use appropriate time management skills
3. Communicate with the instructor
4. Complete course work on time, and
5. Utilize online components (such as Desire2Learn) as required.

### **A. Housekeeping:**

- 1) Keep the room ready for the next class. When you leave each evening, the room is to be returned to the condition it was in when you arrived, or better.
- 2) We do not want to look like we were raised in a barn. Keep it clean and place all trash in the proper containers before you leave.
- 3) Do not alter the computer or audio-visual electronics. Improper use of computer and other equipment in violation of Brazosport College policies may result in penalties according to College rules.

### **B. Expectations:**

- 1) You are largely responsible for your own success or failure as a student.

- 2) As a minimum, students are expected to read the assigned chapter(s) each week. Being prepared is a necessary part of your continuing education and a vital part of the construction industry.
- 3) We expect all assignments to be completed on time and to the best of your ability.
- 4) While we encourage cooperation with your fellow students, academic honesty is the standard; you are solely responsible for your own work.
- 5) We expect and will demand adult behavior in the classroom, both physical and on-line. We expect to have fun and hope you do too.
- 6) If there is a problem with the material call upon the instructor first for help.
- 7) There are no bad questions. Always ask if you are unsure.

### C. Student Responsibilities:

- 1) This is not a self-paced course, but requires weekly interaction with the class and the instructor.
- 2) Assignments such as term papers require a great deal of self-discipline to complete, as much of what is done is at your pace (within the timelines that the instructor has established in the syllabus)
- 3) It is your responsibility to read the syllabus and other information provided by the instructor, and to follow the instructions contained therein.
- 4) If you fail to submit assignment(s) or tests on time, the instructor has the option of not accepting the late work, or accepting the late work with a downgrade penalty.
- 5) You should make every effort to stay on track with the assignments, as it is very difficult to “play catch-up.”
- 6) If for any reason you should fall behind in their work, (illness, accident, temporary duty, etc.) contact the instructor immediately.
- 7) You must complete exams/papers and assignments prior to the end of the scheduled term, or risk being graded zero for that work and run the risk of failure of the course.
- 8) At times, life situations occur where you will need to make hard choices between getting a good grade in a course (or even finishing it) and other priorities in your life, such as a job, family, etc. It is up to each student to make those choices. Occasionally, one will have to make the commendable choice that job or family must take priority and then live with the consequences that has on your studies and GPA. The College has an ethical obligation to ensure that a level playing field is provided for all students, so those who make the hard choices don’t get short changed by students who ask for extra time to get their school work done when they haven’t made those hard choices.
- 9) Extensions/Incompletes are **NOT** a right, but a **VERY RARE** exception that are granted only in the most extraordinary of situations. If you feel that you will require an extension/incomplete (again, the exception, not the rule), it is your responsibility to contact the instructor **BEFORE THE END OF THE COURSE** and make this request. In most cases, written third party documentation will be required to support your request. It is at the discretion of the instructor whether an extension/incomplete will be granted and for what length of time it will be granted, with an absolute maximum extension period of 90 days.

**D. Student Computer Responsibilities:**

- 1) It is a fact of life that we must use computers to complete class work, access presentations and take some tests. You should have a computer, software, and internet access at hand to do this. If you do not, at best consult with the LAC in E-201. There are numerous campus resources available to you.
- 2) The default software being used is Microsoft Word for text documents and Microsoft PowerPoint for presentations. At a minimum, readers for these programs are downloadable free from the [www.microsoft.com](http://www.microsoft.com) website.
- 3) The computer ate my homework is not an acceptable excuse. It is a fact of life that computers are not perfectly reliable, and those computers using Windows have a certain reputation. Users should learn how to survive and readily recover from crashed programs and the need to reboot. When creating your own work you should save the document after each page and learn how to recover from computer problems. If worse comes to worse, read the manuals.
- 4) The instructor generally cannot help you solve your computer problems. Exception – problems with our files, in which case the Instructor will help to the best of ability.
- 5) You are responsible for your own SPAM and viruses. No one should use personal computers, email or the Internet for these courses without possessing their own anti-virus software. If you open a strange email and get your computer infected with a virus, it is your own doing and your own responsibility. You should learn how to block unwanted email.

**E. Telecommunication Devices:**

- 1) All cell phones, “Blackberry” e-mail type devices, and PDA’s MUST be turned completely off and stowed so that you cannot access them in the classroom.
- 2) Calculators are for sale in the BC Bookstore to support math problems, as long as they do not have stored test information they may be used.
- 3) Cheating via use of telecommunications devices will result in an immediate ZERO for the test involved and may result in further penalties.

**F. BC Computer Accounts:** Each student is expected to go to IT services and obtain a computer account, BEFORE the second class of the term. They can be reached at 979-230-3266. You may need to call for an appointment before class for evening classes. Improper use of computer accounts in violation of Brazosport College policies may result in penalties according to College rules. Be aware that ALL online activity is monitored and logged; you have NO right to privacy.

**G. College Website:** [www.brazosport.edu](http://www.brazosport.edu) you should learn to use the college website to find most student information. If you need to take computer classes to learn to use the internet or other computer programs please check with LAC in E-201.

**H. Classroom Copyright:** An implicit copyright of original work not otherwise referenced from others exists for all class materials. Visual or audio recording of class activity is restricted to the College and Instructor. No class material or activity may be recorded or posted on the Internet except by approval of the Instructor.

- I. Notes on Schedule:** A general sixteen-week recommended schedule follows in this document. The instructor will adjust it to meet the details of the specific semester schedule, recognizing variances due to Brazosport College exam schedules, State and Federal Holidays and the availability of such items as a guest speaker.

#### **XIV. PROJECTS, ASSIGNMENTS, PORTFOLIOS, SERVICE LEARNING, INTERNSHIPS, ETC.**

Students will complete a PowerPoint and oral presentation of 15 to 30 slides on a safety management case study or major CSB accident investigation relating to a non-toxicological industrial accident.

These will be presented starting first class after Mid Term, 2-3 per night until the week before Final Exam. The topics must be selected and approved by the instructor before the end of 3<sup>rd</sup> class or one will be assigned.

**This must be original work not a duplication of work for another class.**

#### **XV. OTHER STUDENT SERVICES INFORMATION**

Information about the Library is available at <http://brazosport.edu/students/for-students/places-services/library/about-the-library/> or by calling 979-230-3310.

For assistance with online courses, an open computer lab, online and make-up testing, audio/visual services, and study skills, visit Learning Services next to the Library, call 979-230-3253, or visit <http://brazosport.edu/students/for-students/places-services/learning-services/>.

For drop-in math tutoring, the writing center, supplemental instruction and other tutoring including e-tutoring, visit the Student Success Center, call 979-230-3527, or visit <http://brazosport.edu/students/for-students/student-success-center/math-center/>.

To contact the Physical Sciences and Process Technology Department call 979-230-3618. The Student Services provides assistance in the following:

Counseling and Advising	979-230-3040
Financial Aid	979-230-3294
Student Life	979-230-3355

To reach the Information Technology Department for computer, email, or other technical assistance call the Helpdesk at 979.230.3266.



Get the information you need – when you need it. Click <http://geni.us/BRAZO> to install **BC Connect** on your mobile device to receive reminders, explore careers, map your educational plan, be in the know about events, find out about scholarships, achieve your goals and much more.

**STATE OF TEXAS WORKFORCE EDUCATION COURSE MANUAL  
REQUIREMENTS:**



## WORKFORCE EDUCATION COURSE MANUAL, 2008-2009

### WECM Course

#### Physical Hazards Control

CIP	Rubric	Number	Course Title	Status	Semester Credit Hrs	Min Cont Hrs	Max Cont Hrs
15.0701	OSHT	1209	Physical Hazards Control	Active	2	32	128
15.0701	OSHT	1309	Physical Hazards Control	Active	3	48	144

**Course Level:** Introductory

**Course Description:** A study of the physical hazards in industry and the methods of workplace design and redesign to control these hazards. Emphasis on the regulation codes and standards associated with the control of physical hazards.

**End-of-Course Outcomes:** Identify the common physical hazards in industry; design a hazard free work environment; utilize hazard recognition techniques to implement safe control practices; describe the hazard control measures used in workplace designs; and list Occupational Safety and Health Administration (OSHA) standards and other applicable codes and describe their applications.

**Lab Recommended**

**Cross Reference(s):** CEU Course Section: Physical Hazards Control

**CIP Code Description:** 15.0701 (Occupational Safety and Health Technology/Technician)

**Year:** 2010

**SEMESTER: Fall 2021**

**INSTRUCTOR:** Om Chawla

**OFFICE: L.204B**

**EMAIL:** [om.chawla@brazosport.edu](mailto:om.chawla@brazosport.edu)

PHONE: 979-230-3444  
Process Tech FAX: 979-230-3559  
SHEM FAX: 979-230-3341

WEDNESDAY				Hrs
Start	End	Class/Location	Room	
12:15 PM	1:00 PM	PHYSICAL ACTIVITY	GYM	
1:00 PM	4:00 PM	OFFICE	L.204B	
4:00 PM	5:15 PM	PTAC 1308.43 / 1301.40	ONLINE	
5:15 PM	6:00 PM	OFFICE	L.204B	
6:00 PM	9:00 PM	OSHT 1309.51	L.211	

FRIDAY				Hrs
Start	End	Class/Location	Room	

0.00

THURSDAY				
Start	End	Class/Location	Room	Hrs
2:45 PM	3:30 PM	PHYSICAL ACTIVITY	GYM	0.75
3:30 PM	4:00 PM	OFFICE	L.204B	0.50
4:00 PM	5:15 PM	PTAC 1308.42	ONLINE	1.25
5:15 PM	6:00 PM	OFFICE	L.204B	0.75
6:00 PM	10:00 PM	OSHT 1405.52	HS. 106	4.00

7.25

TOTAL  
HOURS  
35.00

**OTHER OFFICE HOURS AVAILABLE  
BY APPOINTMENT**