NOTE: The instructor and the Eastfield College reserves the right to amend this syllabus as necessary. You will be notified of these changes if and when they are necessary.
INSTRUCTOR’S INFORMATION:
Instructor: Dr. Prem Adhikari
e-mail: Padhikari@dccc.edu
Office: C221
Office hours: By appointment

PREREQUISITE:
Prerequisite Required: DMAT0305. College level ready in Reading.
Course Description: This course is for non-science majors. Fundamental concepts are presented in lecture and laboratory including the periodic table, atomic structure, chemical bonding, reactions, stoichiometry, states of matter, properties of metals, nonmetals and compounds, chemical nomenclature, acid-base theory, oxidation-reduction and solutions. Descriptive chemistry is emphasized (3Lec, 3 Lab.)
This is a Texas Common Course Number. This is a Core Curriculum course selected by the colleges of DCCCD. Coordinating Board Academic Approval Number 4005015103

COURSE DESCRIPTION:
Introductory Chemistry 1405 for non-science majors is designed to meet the needs of students with no background in Chemistry or who are in need of additional preparation before taking Chemistry 1411. This course is concerned with the study of matter presented at an introductory level. Topics covered include: chemistry and measurements, matter and energy, atoms and elements, compounds and their bonds, chemical calculations, gas laws, solutions, acids and bases and nuclear reactions. This syllabus is your legal contract for this course. The first requirement is that you read it entirely. You are responsible for all of the readings and assignments as defined. Questions or issues requiring clarification are welcomed at any time.

REQUIRED OR RECOMMENDED MATERIALS (ISBN FOR TEXTBOOK):
Required textbook: Catalyst SWP: Introductory Chemistry for Non-
Science Majors, the pearson custom edition for Eastfield

**Lab Supplies:**

You must buy the HomeLab Kit. The list of the items to buy can be find on ecampus.

**Other required materials:**

Laboratory Safety Goggles (may be purchased at campus bookstore)

Scientific Calculator

Computer efficient in internet capability and Webcam.

### STUDENT LEARNING OUTCOMES:

1. Demonstrate basic understanding of the makeup of matter in terms of atoms and elements, molecules and compounds.
2. Understand the appreciation of the science of chemistry and its role in our lives.
3. An understanding of the properties of matter and its subsequent classification.
4. A basic understanding of the Periodic Table.
5. A knowledge of the three states of matter - gas, liquid, and solid.
6. An understanding of the concepts of "acid" and "base", and "solution".
7. Demonstrate the use of metric system of measurements and significant figures

**Lab:** Upon successful completion of this course, students will:

1. Use basic apparatus and apply experimental methodologies used in the chemistry laboratory.
2. Demonstrate safe and proper handling of laboratory equipment and chemicals.
3. Conduct basic laboratory experiments with proper laboratory techniques.
4. Make careful and accurate experimental observations.
5. Relate physical observations
6. Interpret laboratory results and experimental data and reach logical conclusions.

### COURSE OBJECTIVES

The course is to demonstrate a general knowledge of the basic concepts in chemistry, and to prepare the student for Chemistry 1411.

### CORE CURRICULUM COURSE OBJECTIVES:

I. **INTELLECTUAL COMPETENCIES:**
1. **Reading**: The ability to analyze and interpret a variety of printed materials such as book, documents and articles written at a level above the 12th grade level

2. **Writing**: The ability to produce clear, correct and coherent prose adapted to a purpose, occasion and audience at a level above the 12th grade level

3. **Speaking**: Ability to communicate orally in clear, coherent and persuasive language appropriate to a purpose, occasion and audience at a level above the 12th grade level

4. **Listening**: Analyze and interpret various forms of spoken and visual communication at a level above the 12th grade level

5. **Critical Thinking**: Think and analyze at a critical level

6. **Computer Literacy**: Understand our technological society, use computer-based technology in communication, problem solving, and acquiring information

II. **EXEMPLARY EDUCATIONAL OBJECTIVES**:

1. To understand and apply method and appropriate technology to the study of natural sciences

2. To recognize scientific and quantitative methods and the differences between these approaches and the other methods of inquiry, and to communicate findings, analyses, and interpretation both orally and in writing

3. To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch on ethics, values, and public policy

4. To demonstrate knowledge of the interdependence of science and technology, and their influence on and contributions to, modern culture

**MEANS OF ASSESSMENT OF LEARNING OUTCOMES**

The course learning outcomes are assigned in more detail for each chapter in various learning objectives. These objectives will be assessed by exam questions, “Chapter quiz” questions, and “Assignment” from mastering chemistry and written laboratory reports. **It is encouraged to start your weekly activities by understanding “terminology”, which will be followed by reading corresponding units in the textbook. You will continue working on “chapter quizzes”, and homework “Assignments” from mastering chemistry. Finally, you will perform the lab experiments. These steps are written in order under “Things to do” in all the weekly activities.**
EVALUATION PROCEDURE:

You will get only 75% of total possible score in case of late submission within a week of the due date of any learning items including lab report, even if it is delayed by any technical issue caused by users and or by student equipments. Late submission of any works after one week of due date will not be accepted. Submission of required learning items/report through instructor’s email will not be accepted, these items must be submitted through eCampus, and student have to strictly use eCampus to communicate with instructor.

Course Activities:

These are located under “Course Contents” button in eCampus. Every week the learning items are placed in the following title.
1. **Things to do:** Helps to figure out the things to do quickly
2. **Learning Objectives:** Helps to focus on the goals to learn units of the chapter
3. **PowerPoint:** Gives you the main direction of concepts for each chapter
4. **Lab report:** Attached on the “Lab #” folder on ecampus weekly/Part
5. **Mastering Chemistry- Chapter Quiz:**
6. **Mastering Chemistry-Home Work Assignment:** Helps to improve critical thinking to understand concepts and to solve problems
7. **Discussion Board:** This is a free response type of answer about the subject matter
8. **Syllabus Quiz:** It helps student to build the strategy for success in this course
9. **Exams:** There will be 3 Midterm Exams
10. **Final comprehensive Exam:** It covers from Chapter 1-9

**DO NOT BEG FOR THE EXTENSION OF DUE DATES!**

**Lab Reports:**
This online course of Chem 1405 uses the “Wet Lab” experiences from Homelab Kit made by items you buy. For the labs, students use the basic laboratory conceptual practice using Reading Assignment attached on ecampus for the respective labs. **To ensure the credibility of the lab portion of this course, students will be asked to submit their picture showing their face at one or two specific steps of each experiment along with the data as reflected in their report.** The specific steps where they need to submit their picture are well-written in the attached report form in the corresponding experiment on eCampus. **Student also need to create youtube video and need to email to the instructor along with the log in information.** Lab grades will be earned from their completed lab reports. *These reports have to be typed in Microsoft office word and upload on eCampus in order to be graded*, unless otherwise specified (Hand Written lab Report Will not be Accepted). **You must use the report attached on eCampus under the folder “Lab #” of each week activities.** You will get ZERO SCORE if you won’t use REPORT FORMAT UPLODED on eCampus under the “Lab #”. Students have to upload the report on eCampus after the completion. **The instructions on “how to upload” the report can be found in eCampus menu under the “Start Here” button.** **Students CANNOT PASS this course with a failing lab grade. A score of 70% or better and completion of 8/11 labs (cannot miss more than 3 labs) is required to pass the lab portion of this course.**

The lab reports has to be uploaded on eCampus by 11.30 pm on the specific due date found on the course calendar. **Late lab reports will be accepted but they will drop by 25% for each day the reports are late.** Similarly, it is advised them to complete the lab as early as they can and do not wait until the last minute. The lab schedules are found under the weekly activity for each week.

**Mastering Chemistry: Chapter Quiz**

This helps to understand the definition, brief concepts and critical thinking of the topics.

You will use Mastering Chemistry for the online homework tutorial. For first time registration and to be more knowledgeable about this system please log on to [http://www.masteringsupport.com/videos](http://www.masteringsupport.com/videos). This will help you to understand the various concepts and to prepare for the exam. To access the chapter quiz, you can log in on ecampus and look for “Mastering Chemistry” menu button. The chapter quizzes of all the chapters, are ACS standard questions. Many of the problems on quiz are from the back of the book. It is strongly recommended that you have to study the practice problems and "worked out" examples related to various units before you attempt the chapter quiz.
Mastering Chemistry: Home Work Assignment

You can access the mastering chemistry assignment directly from ecampus menu [Mastering Chemistry] without log on to mastering chemistry site. Many of the problems come from the back of the book to help you figure out the right answer. Do not attempt the homework without preparing yourself. It is recommended to complete the “Assignment” questions before to attempt the Chapter quiz.

It is advised to complete the assignments in preparation for the tests. Late homework worth’s 50% of the total possible points. Homework due dates are shown in Mastering chemistry site. It is recommended to do the homework questions little by little, rather than solving all the problems at one sitting. Once you have completed the homework assignments, you can revisit them even after the due dates during the preparation for the exam. The score of the homework from each of the chapter will be posted on your eCampus grade book directly. DO NOT LOOK THE ANSWER before you solved the problems, if you do so, you will GET ZERO SCORE on that problem. Students have to take full responsibility of THEIR SCORE REPORTED correctly on the website. If you have doubt on any technical issue contact the technical support at 1-877-672-6877. You will get ZERO SCORE IF YOU EMAIL the answer of the ASSIGNEMENT to the instructors’ email. You must answer the assignment questions from eCampus menu.

Syllabus Quiz:
A quiz over syllabus material will be taken on eCampus. The quiz is worth 10 points. It will be used to determine if students have read the syllabus material. You may use your syllabus on the quiz. You may take it as many times as you like until the deadline. I advise you to take it until you score a perfect 10 points. The quiz can be found on eCampus under the syllabus quiz section.

DISCUSSION BOARDS
Participation in the three Discussion Boards (DB) is required. The discussion boards are worth 5 points each for a total of 15 points. These can be accessed by clicking on “Discussion” tab found on eCampus menu.

Discussion board etiquette: This science course is based on scientific fact alone, not personal opinions. Please refrain from using the discussion board to express political viewpoints, as a dating service, to advertise any and all types of solicitation, from expressing religious viewpoints or quoting Biblical passages, or giving personal opinions. Please refrain from using any inappropriate language.
in the discussion boards. Please do not “sign” discussion boards. The discussion board will automatically be posted with your name.

***Failure to adhere to discussion board etiquette may result in the student being blocked from using the discussion board and a loss of points.

**EMAIL ETIQUETTE**

When sending an email message to an instructor there are a few guidelines to follow:

1. Address the instructor as Mr., Ms., Mrs. or Professor, and in subject line please mention your class and section number

2. Always include your name, course, and section number in the email.

3. Never use foul, vulgar, inappropriate, discriminatory, rude, or otherwise unprofessional language in the email.

4. Remember, the relationship between the student and the instructor is a professional relationship not a friendship; therefore, be sure not to include instructors in your forwarded emails to friends, chat rooms, or personal updates.

Email between the instructor and student is to relate to course, campus, or educational matters

**GRADING SCALE:**
Total number of points possible for this course is 1010. The following scale will be used to determine the standard letter grade of A, B, C, D and F of ≥ 90, ≥ 80, ≥ 70, ≥ 60 and ≥ 50, respectively, earned in the course.

904-1010 = A; 803-903 = B; 702-802 = C; 601-701 = D; 600-0 = F

<table>
<thead>
<tr>
<th>Evaluation Items</th>
<th>Points</th>
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<tbody>
<tr>
<td>Quiz 1</td>
<td>45</td>
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<td>Quiz 2</td>
<td>45</td>
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<td>Quiz 3</td>
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<td>Exam 1</td>
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<td>100</td>
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<td>Exam 3</td>
<td>100</td>
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<tr>
<td>Final Exam</td>
<td>150</td>
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<tr>
<td>Chapter Quiz [Mastering]</td>
<td>90 (9 submittals @ 10 pts. each)</td>
</tr>
<tr>
<td>Homework Assignment</td>
<td>90 (9 submittals @ 10 pts. each)</td>
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<tr>
<td>Lab reports)</td>
<td>220 (11 @ 20 pts. Each)</td>
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<tr>
<td>Syllabus Quiz</td>
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</tr>
<tr>
<td>Discussion Board</td>
<td>15</td>
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*Total Possible Points 1010

*The instructor evaluates course activity after the due date of each weekly activities is passed

**DO NOT BEG FOR THE GRADE! PLEASE EARN IT!!**

Withdrawal Policy (with drop date):

STOP BEFORE YOU DROP

For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a "W". Therefore, please exercise caution when dropping
courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: 

https://www1.dcccd.edu/coursedrops

If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by June 25, 2019. Failure to do so will result in your receiving a performance grade, usually an "F." If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a "W" (Withdraw) in each class dropped.

The Texas Success Initiative (TSI)
The Texas Success Initiative (TSI) is a statewide program designed to ensure that students enrolled in Texas public colleges and universities have the basic academic skills needed to be successful in college-level course work. The TSI requires assessment, remediation (if necessary), and advising of students who attend a public college or university in the state of Texas. The program assesses a student's basic academic skills in reading, writing, and math. Passing the assessment is a prerequisite for enrollment in many college level classes. Students who do not meet assessment standards may complete prerequisite requirements by taking developmental courses in the deficient area and passing them with a grade of C or higher.

INSTITUTIONAL POLICIES:
Institutional Policies relating to this course can be accessed from the following link: ”

Instructor Reserves the Right to amend this syllabus as necessary!!!