Course Syllabus: Introductory Chemistry
Summer 2017
Chemistry: 1405, Section: 46500 (4 Credit Hours)

Instructor: Professor Barry Dorociak
Phone: 972 / 860-7149
e-mail: BarryDorociak@dcccd.edu
Office: C202
Office hours: By appointment

Class Meetings:
Lecture: MTWR 5:30 pm – 7:30pm C260
Lab : MTWR 7:40 pm – 10:10 pm S206
(Class begins on a T, we will meet 1st Friday)

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, acid-base theory, solutions. Descriptive chemistry is emphasized. Chemistry 1405 and 1407 are chemical science courses for allied health and liberal arts students.

Textbooks and Other Course Materials:
3. Scientific calculator
4. Safety goggles (available in the lab if you don’t want to purchase your own)

Prerequisites:
Developmental Math 0090 is needed. No previous chemistry is required.

Student Learning Outcomes:
Upon successful completion of this course, students will:

Lecture
A student completing any introductory chemistry course (including this one) should have:
1. A basic understanding of the makeup of matter in terms of atoms and elements, molecules and compounds.
2. An 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. Demonstrated capability in the metric system.

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 and measurements to theoretical principles.
6. Interpret laboratory results and experimental data, and reach logical conclusions.

Core Objectives:
This course satisfies 4 hours of the science requirement in Dallas County Community College District’s Core Curriculum. As such, this course will transfer to any Texas State university as part of the Core, regardless of whether it is taught at that school.
As part of the core, this course contributes to the development of reading, listening, writing, speaking, and critical thinking skills at the college level. This course meets the Exemplary Educational Objectives for a natural science core course:
1. To recognize instances of quantification in the life/physical sciences;
2. To recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry;
3. To carry out quantitative procedures in a laboratory situation;
4. To identify and recognize the differences among competing scientific models of the universe;
5. To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics and values; and
6. To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

Evaluation Procedures:
Grading: Your performance in the lecture will be evaluated in midterm exams, assignments, writing exercises, quizzes and a comprehensive final exam. Short pop-quizzes will be given at any time of the classes. Average of the quiz grades will be taken for the final grade. All missed exams/quizzes will result in a score of zero. If it is to your benefit, the final exam grade will be substituted for the lowest midterm test grade. The course grade will be calculated in the following manner:

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<tr>
<th>Component</th>
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<tr>
<td>Attendance</td>
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<td>Class Quizzes</td>
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<td>Mid-term Exams</td>
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<td>Assignments (H.W.)</td>
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<td>Lab Experiments</td>
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<td>Final Exam</td>
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The overall grade for the course will be determined using the following distribution:
A: > 90 %  B: 80–89 %  C: 70 – 79 %  D: 60 – 69 %  F: < 59.5 %

Writing Across the Curriculum: Science courses at Eastfield College follow a principle of “Writing Across the Curriculum”. Each course incorporates a writing element. Writing is a critical part of the communication of ideas, and is important in the synthesis and analysis of scientific concepts. Writing in this course is accomplished through assignments and exams.
The Laboratory

1. There is a short safety and technique discussion at the beginning of each lab period. If you arrive late, you will not be allowed to participate in lab.

2. Proper dress code will be enforced in the lab (Info regarding this will be given on the first day of lab). Instructor may ask the student to leave the lab if this code is not followed.

3. Labs require a pre-lab activity, a written outline of the lab procedure, post-lab and a report. The pre-lab and outline are due at the beginning of the lab period. Its purpose is to ensure that you understand the experiment and all related safety procedures. Failure to complete the pre-lab or outline may prevent you from completing the lab.

4. Late reports will not be accepted.

5. Your lab grade will be based on following: safety procedures, your lab report, prelab and postlab, accuracy, precision, and yield.

6. One lowest lab grade is dropped from grade calculation. If you miss more than three labs you will receive a failing grade for the entire course.

7. Food and drinks are not allowed in the chemistry labs due to safety precautions

Obtaining Final Course Grades Using eConnect
Final Grade Reports are no longer mailed. Convenient access is available online at www.econnect.dcccd.edu. Use your identification number when you log onto eConnect, an online system developed by the DCCCD to provide you with timely information regarding your college record. Your grades will also be printed on your Student Advising Report, which is available in the Admissions Office.

Eastfield College Email Policy
Faculty and students must have and use a DCCCD account for all correspondence relating to academic coursework. For information on setting up a DCCCD student email account go to: http://www.dcccd.edu/netmail/home.html

Course Outline:
Details of the working days as well as class work, exams, and lab work expected to be completed are shown in the schedule.

Attendance Policy:
Attendance in every class is among the minimum requirements for success. If you are absent from classes, you may miss the quizzes and the grades associated with it. Attendance in lab is mandatory. There are no makeup labs. Failure to give the FINAL exam may result in an automatic “F” in this course.

Financial Aid Statement
You must attend and participate in your on-campus or online course(s) in order to receive federal financial aid. Your instructor is required by law to validate your attendance in your on-campus or online course in order for you to receive financial aid. You must participate in an academic related activity pertaining to the course but not limited to the following examples: initiating
contact with your instructor to ask a question about the academic subject studied in the course; submitting an academic assignment; taking an exam; completing an interactive video; participating in computer-assisted instruction; attending a study group assigned by the instructor; or participating in an online discussion board about academic matters relating to the course. In an online course, simply logging in is not sufficient by itself to demonstrate academic attendance. You must demonstrate that you are participating in your online class and are engaged in an academically related activity such as in the examples described above. Failure to do so will prevent you from being certified and will affect your financial aid. Certification due date is January 30th.

Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

Repeating This Course: (Third Attempt to Enroll in a Course)
Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in additional tuition to be charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 Semester. See Third Attempt to Enroll in a Course at: http://www.dcccd.edu/thirdcourseattempt/

Science Corner
The Science Corner provides free tutoring in Biology, Chemistry, and Physics, and has information on open labs. Students are encouraged to take advantage of this service for additional help in their course work. The Science Corner is located in the library. For more information on tutors, current semester hours of operation and policies, please visit the link: http://www.efc.dcccd.edu/smpe/ScienceCorner/index.asp

Chemistry Homepage
The Chemistry Homepage in Eastfield College Website has several useful information available that is available to students. Explore the page and take a look at the links, including useful information regarding several concepts in Chemistry. For more information please visit the link: http://eastfieldcollege.edu/smpe/Chemistry/index.asp

Academic Honesty
Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion.

As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog at http://www1.dcccd.edu/cat0506/ss/code.cfm

Academic dishonesty includes, but is not limited to, cheating on tests, plagiarism and collusion. Cheating includes copying from another student’s test or homework paper, using materials not authorized, collaborating with or seeking aid from another student during a test, knowingly using, buying, selling, stealing, or soliciting the contents of an unadministered test, and substituting for another person to take a test. Plagiarism is the appropriating, buying, receiving as a gift, or obtaining by any means another’s work and the unacknowledged submission or incorporation of it in one’s own written work. Collusion is the unauthorized collaboration with another person in preparing written
work for fulfillment of course requirements. Academic dishonesty is a serious offense in college. You can be given a failing grade on an assignment or test, can be failed for the class, or you can even be suspended from college.

**Food and Drink Policy**
Food, drinks, and tobacco products are prohibited in Eastfield College classrooms.

**ADA Statement**
If you are a student with a disability and/or special needs, or if you think you may have a disability, please contact the college Disability Services Office (DSO). Please note that all communication with DSO is confidential. If you are eligible for accommodations, please provide or request that the DSO send your accommodation letter to me as soon as possible (students are encouraged to contact DSO at the beginning of the semester). For more information regarding the College Disability Services Office, please visit the Student Services website: dcccd.edu/DSO Offices or contact DCCCD Office of Institutional Equity at (214) 378-1633. College Disability Services Offices:Eastfield 972-860-8348

**Religious Holidays**
Absences for observance of a religious holy day are excused. Notification of the absence must be given to the instructor in writing at least two weeks prior to the date of the holy day. A student whose absence is excused to observe a religious holy day is allowed to contract with the instructor to take a make-up examination or complete an assignment within a mutually agreed upon time after the absence.

**Withdrawal Policy**
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 **August 3**. 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. For more information about drop deadlines, refer to the current printed Credit Class Schedule, contact the Admissions/Registrar’s Office at 972-860-7167 (Room C119), or contact the division office. If you drop a class via eConnect, make sure to print a copy of the confirmation and keep the copy. In the event of a discrepancy it will be the responsibility of the student to provide documentation of having dropped the class.

**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

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Family Educational Rights and Privacy Act of 1974 (FERPA)
In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), the College may release information classified as “directory information” to the general public without the written consent of the student. Directory information includes: (1) student name, (2) student address, (3) telephone numbers, (4) date and place of birth, (5) weight and height of members of athletic teams, (6) participation in officially recognized activities and sports, (7) dates of attendance, (8) educational institution most recently attended, and (9) other similar information, including major field of student and degrees and awards received. Students may protect their directory information at any time during the academic year. If no request is filed, directory information is released upon written inquiry. No telephone inquiries are acknowledged. No transcript or academic record is released without written consent from the student, except as specified by law.

Classroom Etiquette
In order to ensure an atmosphere that is positive and conducive to teaching and learning it is important that all, instructor and students treat each other with respect. Disruptions during lecture will not be tolerated. Both the lecture and lab are active learning environments. To prevent the environment from being chaotic, the following etiquette will be observed: no eating, chattering, passing notes, or other inattentive activities. Please turn off beepers and cell phones while in class and make every effort not to be late for class. Weapons will absolutely not be tolerated in the classroom.

Children on Campus
The institution strives to protect an environment most conducive to teaching and learning for all enrolled students. Children who are taking part in organized scheduled activities or who are enrolled in specific classes are welcomed. Minor children, however, should not be brought to the institution unless closely supervised by their parent. Minor children should not be brought into classrooms, laboratories or other facilities of the college. This practice is disruptive to the learning process. In the case of an emergency where the student-parent has no alternative but to bring the child to campus, classroom faculty or the administrative heads of other units have full discretion as to whether a child may be allowed to quietly stay in the location. These individuals may require that children be removed by the student-parent from the setting if, in their opinion, the presence of the child is deemed to be disruptive to the learning process. For reasons of security and child welfare the institution will not permit unattended children to be left anywhere on the premises. Parents who have problems with childcare should visit the Counseling and/or Advisement Center to receive referrals to childcare services in the area.

A Note on Harassment, Discrimination and Sexual Misconduct
We are committed to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX and DCCCD policy prohibit harassment, discrimination and sexual misconduct. If you encounter harassment, sexual misconduct (sexual harassment, sexual assault, stalking, relationship violence, stalking), retaliation or discrimination based on race, color, religion, age, national origin, disability, sex, sexual orientation, gender identity, and/or gender expression, please contact your College Title IX Coordinator or the Office of Institutional Equity. We treat this information with the greatest degree of confidentiality possible while also ensuring student welfare and college safety.

We are concerned about the well-being and development of our students, and are available to discuss any concerns. There are both confidential and non-confidential resources and reporting options available to you. If students wish to keep the information confidential, please contact the college Counseling or Student Health Services. As required by DCCCD policy, incidents of discrimination and/or sexual misconduct shared with faculty will be reported to the College Title IX Coordinator or
District Title IX Coordinator. The Title IX Coordinator will contact the student and determine if further investigation is needed. For more information about policies, resources or reporting options, please contact your college Title IX Coordinator or visit www.dcccd.edu/titleIX.

College Title IX Coordinators

Eastfield  Rachel Wolf  TitleIX-EFC@dcccd.edu  972-860-7358
District Title IX Coordinator
Office of Institutional Equity  LaShawn Grant  TitleIX-District@dcccd.edu  214-378-1633

The instructor reserves the right to amend this syllabus as necessary
<table>
<thead>
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<th>#</th>
<th>Day/Date</th>
<th>Chapter</th>
<th>Topic</th>
<th>Quiz</th>
<th>Assignment</th>
<th>Lab</th>
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<td>Quantities in Chemical Reactions (Mole Conversions)</td>
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<td>9/10 Periodic Table (Periodicity) &amp; Chemical Bonding</td>
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<td>16</td>
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<td>11 Ideal Gas Law &amp; Gases in Chemical Reactions</td>
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<td>19</td>
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Exam 2

Experiment 9 – Moles and Chemical Formulas: Part A ONLY!

Quiz 9

Experiment 6 – Electron Configuration & Periodic Properties

Quiz 10

Experiment 7 – Compounds & Their Bonds: Parts A & D ONLY!

Quiz 11

Experiment 11 – Sol’ns, Electrolytes, & Conc.: Parts A & B ONLY!

Quiz 12

Complete Experiments and Check-Out

*Lecture schedule may change, but will be informed in a timely manner. Lab schedules are tentative and final version of this schedule will be posted (if there is any change) on or before the first day of classes.*

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