Hazard Community and Technical College
Course Syllabus

COURSE NUMBER AND SECTION: CHE 145: Introductory General Chemistry (45z1)
Summer I 2019 Online

Instructor Contact Information
Instructor Name/Title: Dr. Paul B. Currie, Professor
Office Hours: By Appointment
Office Location: JCC 232 Hwy 15, Hazard
Phone Number: 606.487.3246
Email Address: paul.currie@kctcs.edu

Course Information
Course Description
Reinforces concepts covered in CHE 140 and introduces basic laboratory techniques, methods, and instrumentation through selected experiments dealing with chemical and physical properties, qualitative analysis, and quantitative analysis.
Prerequisites or Corequisites
CHE 140

Start Date:
Midterm/Last Date to Withdraw Without Instructor Permission: June 17th, 2019
Last Date to Withdraw with Instructor Approval: June 28th, 2019

Textbook Information and Supplies
1. eScience Lab 2nd Edition Introductory Chemistry – Version 4 SKU: Kit4604
2. A Scientific Calculator (cell phones turned long ways have this function)
3. Camera (again a cell phone will work)

Course Competencies/Student Learning Outcomes
1. Recognize chemical hazards in the laboratory.
2. Identify and demonstrate proper use of basic laboratory equipment.
3. Collect data from observations and use scientific measuring devices to make accurate and precise measurements.
4. Analyze data using chemical principles and concepts.
5. Interpret results to arrive at rational conclusions.
6. Prepare written reports which present data, analyses, and conclusions in scientific format.

General Education Course Competencies/Student Learning Outcomes
Natural Sciences (NS)
1. Demonstrate an understanding of the methods of science inquiry.
2. Explain basic concepts and principles in one or more of the sciences.
3. Apply scientific principles to interpret and make predictions in one or more of the sciences.
4. Explain how scientific principles relate to issues of personal and/or public importance.
5. Conduct a hands-on project using scientific principles (category experience satisfied by this course).

Course Structure, Evaluation, and Grading Methods
This course consists of a series of lab experiments using two different systems. Late Nite Labs (LNL) are virtual labs conducted using the Late Nite Labs website. eScience Labs (ES) are labs conducted using a kit of materials and some common household items. Both parts are required to complete the course.

Descriptions of Graded Assignments
Lab Reports will be completed as part of the eScience lab and will detail the experiment or exercise. Some labs will have multiple experiments. For each report, you will take a picture of yourself performing the lab (“selfie” style works). You will receive 10% of the lab if you do not attach the picture, and 5% off if your face is not in the picture. Extra Credit may be given for particularly good or entertaining photos up to a maximum of 10 points for the course. A Midterm Grade is given to you as an indicator of your progress for the material due at the midterm. This grade should not be taken to be equivalent to your final grade as you still have 50% or more of the assignments left to complete before the term is finished. All assignments are due by the end of Day on their specified due date.

Grading Policy/Scale (Course Schedule/Calendar Optional)
Grading Summary

<table>
<thead>
<tr>
<th>Method</th>
<th>Number</th>
<th>Points Each</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Contract</td>
<td>1</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Lab Reports(ES)</td>
<td>10</td>
<td>100</td>
<td>1000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
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<td><strong>1005</strong></td>
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GRADING SCALE:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90% - 100%</td>
</tr>
<tr>
<td>B</td>
<td>80% - 89%</td>
</tr>
<tr>
<td>C</td>
<td>70% - 79%</td>
</tr>
<tr>
<td>D</td>
<td>60% - 69%</td>
</tr>
<tr>
<td>E</td>
<td>Below 60%</td>
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</tbody>
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Class Policies/Procedures

Inclement Weather Class Policy/Procedure
During periods of inclement weather, HCTC will either opens at 11:00 or be closed. On days that HCTC opens at 11:00 a.m., all courses scheduled BEFORE 11:00 a.m., will be canceled. Decisions regarding evening classes will be made by 4:00 p.m. Check local radio, TV stations, or the HCTC website for information. Weather related situations will be evaluated on an individual basis.

General Class Make-up, Late Assignment Class Policy/Procedure
Though there are specific due dates for the course, all assignments are available to the course start date, and it is in your best interest to not wait until the last minute to do the course work. You are
even encouraged to work ahead when possible. Policies regarding late assignments are listed above in the “Descriptions of Graded Assignments” section. Exceptions, including those that are weather-related, will be considered on a case by case basis. No assignments will be accepted after 11:59 pm Eastern on June 30th, 2019.

**Attendance Class Policy/Procedure**
As this is a web-based class, there is no formal attendance; however, students are expected to complete the work in the time allotted. Any student who has not completed the Safety Contract Assignment in Blackboard by June 7th, 2019 will be reported as a “no-show” under KCTCS policy.

**Withdrawal Class Policy/Procedure**
A student may officially withdraw from any class up to and including the date of midterm with a W grade assigned to the student’s record. After midterm and through the last class day (not including the period for final), students will need instructor’s permission. Please refer to the following for instructions on request withdrawal:

**Accommodations Procedure**
HCTC recognizes that a disability may preclude a student from demonstrating required course competencies or from completing course requirements. In compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, any qualified student with disabilities may request appropriate course accommodations to ensure that full benefits are received and that the instructor is aware and can make the proper adjustments. Students are encouraged to meet with the Disability Services Representative to develop and complete an Accommodations Plan.

Julie Caudill, HCTC Disabilities Services Representative
Phone: 606-487-3486 and Email: jcaudill0129@kctcs.edu

**Appeals Process**
Always begin the informal process by talking to your instructor. If issues cannot be resolved, then talk with the Dean/Supervisor (see below for contact information) of the faculty member. For information about academic rights, academic offenses, and the student’s formal right to appeal, review the KCTCS Code of Student Conduct.

**Dean/Supervisor Contact Information**
Dean/Supervisor: Leila Smith
Phone Number: 606.487.3504
Office Location: Smith Admin 101A, Lees College Campus
Email Address: Leila.smith@kctcs.edu

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**Approved Course Outline:**

I. Basic Laboratory Operations
   A. Safety
   B. Measurements (including precision and accuracy)
   C. Calculations (including graphing data and statistical data manipulation)
   D. Laboratory techniques
II. Physical Properties
   A. Mass
   B. Density
   C. Behavior of gases

III. Chemical Reactions and Stoichiometry
   A. Types of reactions
   B. Empirical formulas
   C. Stoichiometry
   D. Thermochemistry

IV. Atomic and Molecular Structure
   A. Electromagnetic spectra
   B. Molecular shapes

Plagiarism Policy:
Students are expected to submit their work in their words or site sources by ACS standards
(http://library.williams.edu/citing/styles/acs.php).

Additional Syllabus Information:
Review the HCTC Website: (from HCTC Website Click Current Students > Academic Resources > Syllabus Information)

Print Version of URLs listed in the syllabus:
Academic Calendar: https://hazard.kctcs.edu/education-training/academic-calendar/index.aspx
HCTC Syllabus Website: https://hazard.kctcs.edu/current-students/academic-resources/syllabus_information.aspx
Student Code of Conduct: https://kctcs.edu/current-students/academic-resources/code-of-student-conduct.aspx