

Integrated Science II
Course Syllabus
Trumbull Career and Technical Center
Mr. McClain - Instructor
2011-2012

Course Description: The Integrated Science course centers on conceptual criteria, which is designed to supply the student with a general understanding of basic chemical, physical, and biological principles. The students will be expected to be able to apply the material they have been presented with to actual hands-on situations, as well as interpret collected data.

Students should have previously taken a physical science class, and possibly an Integrated I course if they are to excel in this course. The length of the class is limited to one class period per day, five days a week, for the entire school year. Students are required to keep a comprehensive notebook containing class notes and graded material, which is included as part of the class grade. The student should have a calculator in order to perform the math calculations in the course.

Instructional Philosophy: Students will be expected to take the material presented in the class, and apply the concepts to real-life situations. Students will also be expected to present high-quality work, with only limited opportunities to re-submit work, should it not meet class standards. Classroom work, which makes up the majority of the grade, will consist of, but not be limited to, reading, writing, discussions, problem solving, and some small projects. Lab work will be included in the course where applicable, with the student being graded on lab safety procedures, quality of written work, as well as the ability to follow written and/or verbal directions. Written exams, quizzes, in-class work, homework, worksheets, lab projects, and notebooks will measure student achievement.

Course Goals:

1. Demonstrate a strong understanding of the periodic chart, and its impact on daily life, along with related terms and concepts.
2. Show a general understanding of chemical principles, laws, and equations.
3. Show a working knowledge of anatomy, the human body and related terms.
4. Demonstrate knowledge of advanced physical science concepts, such as simple machines, potential and kinetic energy,
5. Demonstrate a working knowledge of heat, and associated material.
6. Demonstrate a thorough understanding of lab policies and safety procedures, as well as correct use of lab apparatus.
7. Demonstrate the ability to use all available information to produce projects and/or reports, as assigned.

Assessment Plan:

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| 25% | Weekly quizzes |
| 15% | In-class assignments, Lab projects |
| 15% | Book work, reports |

15% Notebook
30% Class Participation

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NOTE

Class participation is based on daily attendance and classroom discipline. Students are expected to contribute to the daily learning environment of the class, and to be in class, just as their employer would expect them to be on the job. The student is awarded 10 points every day they are in attendance. Their discipline (or lack thereof) determines how many of these 10 points are retained. The end of the 9 weeks is when the points are totaled, and the appropriate percentage is applied. This percentage is then figured into the total grade.

Students are graded according to the Trumbull Career and Technical Centers' grading scale. A Mid-term and Final Exam is given in the class, with an adjusted grading scale being utilized.

The Trumbull Career and Technical Center uses a numerical grade scale which is as follows:

- A 92% - 100%
- B 83% - 91%
- C 74% - 82%
- D 66% - 73%
- F 0% - 65%

These exams are used to establish a semester grade, which in turn helps to determine a final course grade