

# HIGH SCHOOL CURRICULUM PROPOSAL

PROPOSED COURSE NAME

**Physical Science II**

OLD COURSE NAME (if applicable)

**Physical Science**

SUBMITTED BY: **Mr. Kris Hayden**

Underline the Appropriate Item: New Course / **Major revision to an existing course**

Implementation Date: **Fall of 2014**

Person(s) who will write the Curriculum:

**Mr. Hayden (primarily) with help from the Science Department**

Respond to the following:

Duration: **Yearly (2 semester course)**

Open to: **Primarily 11<sup>th</sup> and 12<sup>th</sup> grade students not planning on going into a science related field in college**

Prerequisites: **Students entering the class should have completed two other classes prior to admittance. (Biology and Earth)**

Pass/Fail Option: **No**

Credit: **1 Credit (1/2 credit per semester)**

If the course meets a graduation requirement, which one does meet?

**Can be used as one of the three science credits needed for graduation.**

Where does this course fit into department sequence?

**Ideally, the 3<sup>rd</sup> year of science for students that are not pursuing a career in science but still plan on attending college.**

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What is the potential impact of this course on the other department offerings?

**Possible replacement of Environmental Science but an alternative to this, (Env. Ag) is available. The benefit is it will allow our lower students to pursue another advanced class.**

Course Description

**Semester 1: Motion, forces, and Energy**

**Semester 2: In depth view into basic chemical components (atoms, Reactions, formulas, and naming)**

Special Notes (i.e., extended periods, team teaching, etc.)

N/A

RATIONALE, OBJECTIVES, STRATEGIES

1. Course Rationale

A) What is the evidence of student need for this course?

**Our students are struggling to perform well on state mandated testing and college entrance exams. By offering this class, we will in turn be offering our students a better chance to expand their knowledge and improve their chances for success.**

B) What departmental needs/goals would this course meet?

**This course would allow our department to instruct students on all the areas of science. This will in turn, promote student success**

C) What institutional needs/goals would this course meet?

**Furthering student achievement and success.**

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2. Course Objectives: What will each student learn and know?

**Chemistry (atoms, atomic structure, formulas, naming, reactions, periodic table**

**use and structure)**

**Physics (motions, forces, energy, laws of science, using equations)**

3. What types of instructional strategies will be used in the class?

**Hands-on, lab based instruction.**

**Investigative studies and reflection on outcomes and results**

4. What types of student assessment procedures will be used? How will the assessment be used to guide instruction?

**Projects, Labs, quizzes, research papers, student reflections, exams.**

**Advancement will be based on the general mastery of the content, this includes extra instruction whenever needed**

5. List resources needed and approximate costs to implement this course. Include staff development, materials, textbooks, additional staff, equipment, technology resources, facilities, and fees.

**We have all the needed materials for this course (books, resources, handouts, etc.), the only things we would need are the disposable lab supplies that are used each year and unable to be reused.**

Include any additional information pertinent to your course.

**This will be a great addition to our course selection and I am very excited to be part of its arrival into our catalog. I am positive it will be a great addition to our offerings and help improve test scores across the board.**

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