

## **Sound Waves**

**EDUO 9512 1 Semester Credit/Unit**

Instructor – Ryan Pickett

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*Note: This is a Public syllabus of the course. For a full detailed syllabus please email the instructor.*

### **Course Overview**

From our own biology to the smartphones in our pockets, science plays a role in every aspect of our lives. For example, your vocal chords generate sound waves that are then transmitted through the air to the ears of listeners. Welcome to **EDUO 9512 – Sound Waves**. The purpose of this course is to create a thorough, well thought out unit on sound waves. To that end, participants will not only be provided with resources on sound waves, but will also explore the next generation science standards as well as the importance of STEAM in education. By meeting the requirements of this class, participating teachers will earn one semester unit of graduate level extension credit from Dominican University of California, a fully accredited university.

### **Course Objectives:**

After completing this course, you will demonstrate or indicate:

- the importance of STEAM in education
- the standards appropriate for your unit on sound waves
- the knowledge required to teach students about sound waves
- the ability to create a unit on sound waves that engages all students

### **Course Relation to CCS or other Professional Standards**

This course aligns with all of the next generation science standards associated with sound waves. These standards can be found at [www.nextgenscience.org](http://www.nextgenscience.org)

### **Course Assignments Preview:**

For this course, you will ultimately be creating a unit on sound waves. In preparing to plan your unit, you will be asked to review provided resources and complete assignments that give you the opportunity to explore the next generation science standards as well as a STEAM education. You will also be asked to consider your student population and how you will address classroom management within your unit.

## Course Assessment Rubric

| <b>Exemplary: A to A-</b>  | <b>Acceptable: B+ to B-</b>  | <b>Unacceptable</b><br>Must be resubmitted                                     |
|--|--|--|
| All work is well organized.  | Work is generally well organized   | Work shows little or no organization   |
| Unit relates to appropriate standards, grade level, and student level. | Unit relates fairly well to the appropriate standards, grade level, and student level. | Unit is vague and unrelated to the standards, grade level, and student level.  |
| Work is free of spelling and/or grammatical errors                     | Writing contains a few spelling and/or grammatical errors                              | Numerous spelling and/or grammatical errors make the writing difficult to read |

- You are allowed up to nine months to complete the course.
- For course content questions, contact your instructor by email.
- For questions involving your registration or to change your address, please contact us at [support@dominicanCAonline.com](mailto:support@dominicanCAonline.com) or call (800) 626-5080.
- For Dominican self-guided course information, go to <http://dominicancaonline.com/Dominican-CA-Online-FAQ>