Instructor Names: Christopher Bull and Stephanie Accetta **Time Frame:** Juniors and Seniors Day-about schedule 2020/2021; this 14 week schedule will span a full academic year due to alternating days.

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Course Description
Physics is the study of how everything works. This course will cover the following that will prepare the student for future coursework. **Topics:** Kinematics: One-Dimensional Motion, Forces and Equilibrium, Introduction to Newton's Laws, Applications of Newton's Laws, Newton's Law of Universal Gravitation, Work and Energy, Energy Conservation, Impulse and Momentum, Mechanical Waves and Wave properties, Electromagnetic Waves, and Nuclear Physics.
GSEs/CCSS / NGS Standards/ Addressed:
PS2 (9-11)-5, PS2 (9-11)-6, PS2 (9-11)-7
PS3 (9-11) -8, PS3 (9-11)-9, PS3 (9-11)-10
ESS3 (9-11)-5, ESS3 (9-11)-6, ESS3 (9-11)-7, ESS3 (9-11)-8, Ess3 (9-11)-9
Required Textbooks, Reading and Supplementary Materials
Textbook: Holt Physics – this textbook is accessible to students via a PDF in their Google Classroom
Tutoring by appointment
Supplemental: Khan Academy Video Review

Assignment and Examination Schedule

Kinematics: One-Dimensional Motion
Scientific Notation and Unit Conversion excercises; Chapter 2 Practice Problems, Virtual Handouts and Labs and Assessments
Week
1/2/3
Kinematics: Two-Dimensional Motion
Chapter 3 Practice Problems, Virtual Handouts and Labs and Assessments
Week
3/4/5
Forces and Equilibrium
Chapter 4 Practice Problems, Virtual Handouts and Labs and Assessments
Week
5/6
Introduction to Newton's Laws
Chapters 2 & 4 Practice Problems, Virtual Handouts and Labs and Assessments
Week
6/7
Applications of Newton's Laws

Chapter 4 Practice Problems, Virtual Handouts and Labs and Assessments
Week
7/8
Newton's Law of Universal Gravitation
Chapter 7 Practice Problems, Virtual Handouts and Labs and Assessments
Week
8/9
Midterm TBA
Energy Conservation
Chapter 5 Practice Problems, Virtual Handouts and Labs and Assessments
Week
9/10
Impulse and Momentum
Chapter 6 Practice Problems, Virtual Handouts and Labs and Assessments
Week
10/11
Mechanical Waves and Wave Properties
Chapter 11 Practice Problems, Virtual Handouts and Labs and Assessments
Week
11/12
Electromagnetic Waves
Chapter 2 Practice Problems, Virtual Handouts and Labs and Assessments
Week
13/14
Nuclear Physics
Chapter 22 Practice Problems, Virtual Handouts and Labs and Assessments
Week
14

Final TBA

GRADING POLICY
Formative Assessments 35% Summative Assessments 65%
Class work 10% Unit Tests 20%
Homework 10% Projects 20%
Quizzes 15% Labs 15%
Final 10%