Syllabus and Course Introduction

<https://www.youtube.com/watch?v=1Ve1bTzw00c&ab_channel=KentLin>

<https://www.youtube.com/watch?v=ijrsJEuvkds&ab_channel=KentLin>

Calculus Basics

<https://www.youtube.com/watch?v=ReKBvz0Uo8Q&ab_channel=KentLin>

<https://www.youtube.com/watch?v=PzQlL-acX_0&ab_channel=KentLin>

<https://www.youtube.com/watch?v=tZonUAYuluM&ab_channel=KentLin>

<https://www.youtube.com/watch?v=IWoPXnBNwt0&ab_channel=KentLin>

Time, Coordinate, Inertial Frame, and Kinematic

<https://www.youtube.com/watch?v=89el_sY6YKs&ab_channel=KentLin>

<https://www.youtube.com/watch?v=9pNz64mWhNY&ab_channel=KentLin>

Newton’s Laws

<https://www.youtube.com/watch?v=-ZJUOgFNRis&ab_channel=KentLin>

<https://www.youtube.com/watch?v=Hedpp3hYVOI&ab_channel=KentLin>

<https://www.youtube.com/watch?v=uqYOXJRRfxA&ab_channel=KentLin>

Work and Energy

<https://www.youtube.com/watch?v=fY3f8tUnAio&ab_channel=KentLin>

<https://www.youtube.com/watch?v=o9vNvrtTGAQ&ab_channel=KentLin>

Momentum and Systems of Particles

<https://www.youtube.com/watch?v=fnqlYagLTSI&ab_channel=KentLin>

<https://www.youtube.com/watch?v=Ql5yOP91I-M&ab_channel=KentLin>

Rotation

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<https://www.youtube.com/watch?v=IuomArFGiRY&ab_channel=KentLin>

<https://www.youtube.com/watch?v=xCISKSS7y4s&ab_channel=KentLin>

<https://www.youtube.com/watch?v=N6JJWoLNZLs&ab_channel=KentLin>

<https://www.youtube.com/watch?v=HeeMrU75dO4&ab_channel=KentLin>

Gravity

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<https://www.youtube.com/watch?v=H7VlrIfy-mA&ab_channel=KentLin>

<https://www.youtube.com/watch?v=77LMRgRSiHA&ab_channel=KentLin>

<https://www.youtube.com/watch?v=_pTvd_ChDmE&ab_channel=KentLin>

Oscillations

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<https://www.youtube.com/watch?v=HcqTl6zQdUk&ab_channel=KentLin>

<https://www.youtube.com/watch?v=NHPDB7AqRTs&ab_channel=KentLin>

<https://www.youtube.com/watch?v=gxFU4nsAf1c&ab_channel=KentLin>

Temperature, Heat, and the Ideal Gases

<https://www.youtube.com/watch?v=T_LEIV0flBo&ab_channel=KentLin>

<https://www.youtube.com/watch?v=wka_D0D90gg&ab_channel=KentLin>

The First Law of Thermodynamics

<https://www.youtube.com/watch?v=uhhJKyVSKiU&ab_channel=KentLin>

<https://www.youtube.com/watch?v=UIX82B-P7kw&ab_channel=KentLin>

<https://www.youtube.com/watch?v=LfWESC5mNYA&ab_channel=KentLin>

Kinetic Theory for Ideal Gases

<https://www.youtube.com/watch?v=d_zRqHZMDcU&ab_channel=KentLin>

<https://www.youtube.com/watch?v=NBDGrnUMF4M&ab_channel=KentLin>

Heat Engine, Second Law of Thermodynamics, and Entropy

<https://www.youtube.com/watch?v=QPGinhZz0R0&ab_channel=KentLin>

<https://www.youtube.com/watch?v=E7eOOy8qBnk&ab_channel=KentLin>

<https://www.youtube.com/watch?v=c3VHsEh23CY&ab_channel=KentLin>